



Unplugged Power Systems
The Other Power Company.ca



Unplugged Power Systems is an alternative energy company that focuses on energy efficiency and alternative methods of electricity generation.

There are many ways to generate the electricity that we use every day and it is not a requirement to be connected to the public utility grid. More and more people dream of unplugging their meters and handing them back to the power company, whether for financial reasons, or simply for their own independence. We help make that a reality.

Based in Moncton, we serve south-eastern New Brunswick from our retail store at
200 Millennium Blvd.

National and international clients are served by our online store at
www.TheOtherPowerCompany.ca

Produced by:

DSM
Darkside Media
www.darksidemedia.ca

Index

Batteries	46	Street Lighting	8
Biodiesel Equipment	58	Strip Light	17
Construction Trailers	59	Task Lighting	5
Connectors		Tube Lighting	3
Anderson Style	47	Warehouse	6
Battery Lugs	47	Micro Hydro Turbines	44
Solar Connectors	38	Mounting Hardware	36
Fuses and Accessories		Pumps	
Holders	48	Bilge, Sump and Barrel	25
Fuses	49	Solar Circulation	28
Generators		Water and Utility	24
AC Generators – Diesel	56	Well Pumps	23
AC Generators – Inverter	55	Solar PV	
AC Generators – Gasoline	54	Connectors	38
AC Generators – PTO	55	Charge Controllers	33
DC Generators	55	Mounting Hardware	36
Generator Control Modules	56	Panels	33
Instrumentation		Positioners	37
Ammeters	51	Warning Labels	39
Light Meters	53	Wire and Cable	38
Multimeters – Handheld	53	Solar Hot Water	
Multimeters – Panel Mount	50	Circulation Pumps	28
pH Testers	52	Collectors	27
Volt Meters	51	Fittings	29
Wind Speed Indicators	52	Mounting Hardware	36
Inverters		pH Testers	52
Charging	45	Pipe	27
Grid Tied – Solar	35	Tanks	29
Grid Tied – Wind	42	Tools	
Modified Sine Wave	45	Battery Terminal	47
Pure Sign Wave	45	Plumbing	30
LED Lighting		Solar MC4 Connector	38
Automotive	15	Wind Turbines	
DC LED Bulbs	22	Controllers	42
Drivers (Replacement)	18	Horizontal Axis Turbines	41
Grow Lights	19	Turbine Towers	43
Neon Light Rope	17	Vertical Axis Turbines	42
Off Grid Kits	60	Wire and Cable	
Sign Modules	18	Battery Connection	46
Stadium Lighting	12	Solar PV	38



LED Environmentally Friendly Fluorescent Tube Replacements

Save 57% Over T8 Fluorescent



LED Tubes do not require protective covers for use in the food service industry because they contain no glass. The covers are made from impact resistant plastic.

Available in all common fluorescent tube configurations up to 8 feet.
LED tubes are the perfect replacement for any fixture.

Ballast Compatible LED Tubes (Works with most electronic ballasts)

Part Number	Length	Power Draw	Lumen Output	Replaces Fluorescent Tube
UPFT-24B-11T08C-C	24"	11W	1200	F20T12 F17T8 18-22W
UPFT-48B-19T08C-C	48"	19W	2160	F34T12 F40T12 F30T8 F48T12 32-60W

Color Temperature (Kelvin)

Warm White: 2700-3500°K

Neutral White: 4000-5500°K

Cool White (Pure): 6000-10000°K

Rendering Index

>= 75

>= 80, R9 (Strong Red) 0

>= 85, R9 (Strong Red) 0

Electrical Characteristics

Input Voltage: 85V-277V, 347V AC

Power Factor: >=0.95

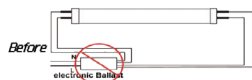
THD: <=15%

Off-State Power: Zero

Base Style: G13, HO and Single Pin

Non-Ballast Compatible LED Tubes (Works with ballast removed)

LED tubes designed to operate directly on line voltage. No ballast is required, saving even more energy. Unlike ballast compatible tubes, these tubes remove the additional failure point and energy draw.



Modified Fixture



110 Lumen/Watt

Part Number	Length	Power Draw	Lumen Output	Replaces Fluorescent Tube
UPFT-18A-07T08C-C	18"	7W	840	F15T12 F17T8 15-17W
UPFT-24A-10T08C-C	24"	10W	1200	F20T12 F17T8 18-22W
UPFT-36A-12T08C-C	36"	12W	1440	F30T12 F25T8 25-30W
UPFT-48A-18T08C-C	48"	18W	2160	F34T12 F40T12 F30T8 F48T12 32-60W
UPFT-72A-28T08C-C	72"	28W	3360	F72T12 70-85W
UPFT-96A-35T08C-C	96"	35W	4200	F96T12 F96T8 60W

130 Lumen/Watt

Part Number	Length	Power Draw	Lumen Output	Replaces Fluorescent Tube
UPFT-18C-07T08C-C	18"	7W	840	F15T12 F17T8 15-17W
UPFT-24C-10T08C-C	24"	10W	1200	F20T12 F17T8 18-22W
UPFT-36C-12T08C-C	36"	12W	1440	F30T12 F25T8 25-30W
UPFT-48C-18T08C-C	48"	18W	2160	F34T12 F40T12 F30T8 F48T12 32-60W
UPFT-72C-28T08C-C	72"	28W	3360	F72T12 70-85W
UPFT-96C-35T08C-C	96"	35W	4200	F96T12 F96T8 60W



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T1 Series LED Surface Mount Lights

30 Watt Fixture Directly replaces
2 tube 4' T8 fixture



Water tight, explosion proof, and impact resistant fixture designed for harsh environments. Ideal for barns and public spaces.



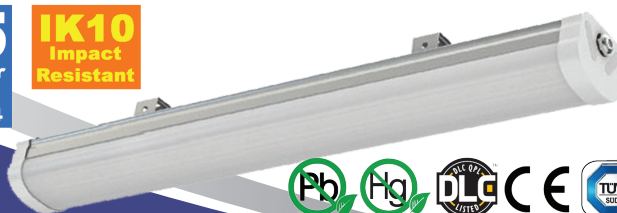
Part Number	Color	LED Power	Lumen Output (+/- 6%)	Max Current	Weight	Dimensions A x B x C
UPSM-030T1-C	5500-6500°K	30W	3,100lm	0.55A	1.5kg / 3.3 lbs	72x603x106mm / 2.83x23.74x4.17"
UPSM-030T1-N	4000-4500°K		2,840lm			
UPSM-030T1-W	2700-3200°K		2,660lm			
UPSM-055T1-C	5500-6500°K	55W	5,570lm	0.72A	2.8kg / 6.1 lbs	72x1003x106mm / 2.83x39.48x4.17"
UPSM-055T1-N	4000-4500°K		5,650lm			
UPSM-055T1-W	2700-3200°K		5,100lm			
UPSM-070T1-C	5500-6500°K	70W	7,600lm	0.91A	3.0kg / 6.6 lbs	72x1203x106mm / 2.83x47.36x4.17"
UPSM-070T1-N	4000-4500°K		7,170lm			
UPSM-070T1-W	2700-3200°K		6,660lm			
UPSM-080T1-C	5500-6500°K	80W	8,900lm	1.00A	3.5kg / 7.7 lbs	72x1503x106mm / 2.83x59.17x4.17"
UPSM-080T1-N	4000-4500°K		7,900lm			
UPSM-080T1-W	2700-3200°K		7,080lm			

T2 Linear Stackable Vaportight Fixtures

LED linear light fixtures designed for surface mounting. These fixtures can be stacked lengthwise in the same way as traditional fluorescent troffers. Available in all standard light colors.

Fixtures are explosion proof, IK08 impact rated, IP68 environmentally rated. Available in 2700k to 6000k.

Part Number	Length LxWxH (mm)	Power Draw	Lumen Output	Light Color	Beam Angle
UPSM-020T3-x	661 x 96 x 94.5	20W	1960	2700-3200°K 4000-4500°K 5500-6500°K	120°
UPSM-040T3-x	1264 x 96 x 94.5	40W	3950		
UPSM-050T3-x	1560 x 96 x 94.5	50W	4650		
UPSM-030T4-x	661 x 131 x 94.5	30W	2810		
UPSM-070T4-x	1262 x 131 x 94.5	70W	6280		
UPSM-080T4-x	1560 x 131 x 94.5	80W	7020		



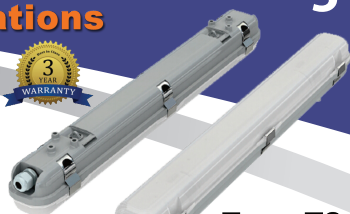
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Vaportight Fixtures for Wet Locations

Surface mountable LED fixtures. Similar in appearance to sealed fluorescent fixtures, these fixtures feature a watertight wire interface with internal connections. Substantially more durable than fluorescent fixtures of the same type due to the lack of UV degradation of the lens. Available in all standard light colors.

Fixtures are explosion proof, IK08 impact rated, IP68 environmentally rated. Light color options available in 2700k to 6000k.

Part Number	Length LxWxH (mm)	Power Draw	Lumen Output	Light Color	Beam Angle
UPSM-020T3-x	661x96x94.5	20W	1960	2700-3200°k 4000-4500°k 5500-6500°k	120°
UPSM-040T3-x	1264x96x94.5	40W	3950		
UPSM-050T3-x	1560x96x94.5	50W	4650		
UPSM-030T4-x	661x131x94.5	30W	2810		
UPSM-070T4-x	1262x131x94.5	70W	6280		
UPSM-080T4-x	1560x131x94.5	80W	7020		



Type T3



Type T4



LED Panel Lights Replaces Recessed Fixtures



LED panels are direct replacements for drop ceiling fluorescent fixture installations as well as surface mounted applications. Aluminum alloy frames will fit in all standard size suspended ceilings with anchors on the corners to allow direct attachment to the ceiling of safety cables.



Part Number	Size (Imperial)	Size (Metric)	Power	Lumen Output	Light Color	LED Qty
UPPL-1506-012-BA	6" x 24"	150mm x 600mm	20	2200	Optional: 2700°k 4500°k 6000°k	186
UPPL-0202-012-BA	8" x 8"	200mm x 200mm	12	1320		100
UPPL-0303-020-BA	1'x1'	300mm x 300mm	20	2200		174
UPPL-0306-028-BA	1'x2'	300mm x 600mm	28	3080		220
UPPL-0606-040-BA	2'x2'	600mm x 600mm	40	4400		372
UPPL-0606-060-BA	2'x2'	600mm x 600mm	60	6600		600
UPPL-0606-052-BA	2'x2'	600mm x 600mm	52	5720		480
UPPL-0212-040-BA	8" x 48"	200mm x 1200mm	40	4400		360
UPPL-0312-048-BB	1'x4'	300mm x 1200mm	48	5280		484
UPPL-0312-060-BA	1'x4'	300mm x 1200mm	60	6600		720
UPPL-0312-078-BA	1'x4'	300mm x 1200mm	78	8580		384
UPPL-0612-080-BA	2'x4'	600mm x 1200mm	80	8800		720



LED Suspended Task Lighting

Perfect for every work bench

Replaces 2 tube fluorescent shop lights commonly found suspended over workbenches. Comes on instantly in cold weather! Pull chain power switch. Cable suspension kit included.

Part Number
UPBL1-48CWS Cool White 5700k
UPBL1-48DWS Day White 4000k



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W5 Series Highbay Lights

**110 Lumens
Per Watt**



Part Number	LED Power	Lumen Output (+/- 5%)	Maximum Current Draw @			Weight
			120V	240V	347V	
UPLW-100-xxx-W5C	100W	11,000lm	0.88A	0.44A	0.30A	6.0 kg / 13.2 lbs
UPLW-120-xxx-W5C	120W	13,200lm	1.04A	0.52A	0.38A	6.5 kg / 14.3 lbs
UPLW-150-xxx-W5C	150W	16,500lm	1.29A	0.64A	0.43A	6.5 kg / 14.3 lbs
UPLW-200-xxx-W5C	200W	22,000lm	1.71A	0.85A	0.59A	8.0 kg / 17.6 lbs
UPLW-240-xxx-W5C	240W	26,400lm	2.04A	1.02A	0.71A	8.0 kg / 17.6 lbs
UPLW-300-xxx-W5C	300W	33,000lm	2.54A	1.27A	0.88A	8.2 kg / 18.1 lbs



Electrical Characteristics

Input Voltage: 85V-265V, 347V AC

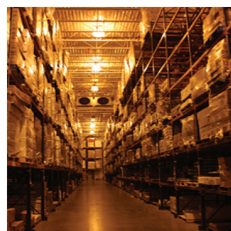
Power Factor: >=0.95

THD: <=15%

EMC & EMI: Included

Off-State Power: Zero

Driver Power Consumption: 5W



Common Information



Light Color Options:

W - Warm White (2700-3500°K)

D - Day White (4000-5500°K)

C - Cool White (6000-6500°K)

L - Cold White (> 7000°K)



Illuminating
ENGINEERING SOCIETY
Profiles available upon request

Meanwell Drivers Inside

World-renowned Meanwell drivers are used for both dimmable and non-dimmable applications.

WiFi



Zigbee radio dimming system available for all highbay lights.
Ask for details.

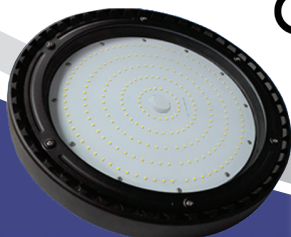


W6 Series UFO Style Highbay Lights

130 Lumens Per Watt



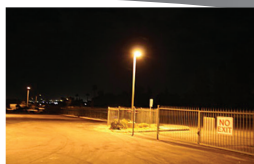
Part Number	LED Power	Lumen Output (+/- 5%)	Maximum Current Draw @			Weight
			120V	240V	347V	
UPLW-100-xxx-W6C	100W	12,000lm	0.88A	0.43A	0.30A	5.5 kg / 12.1 lbs
UPLW-150-xxx-W6C	150W	18,000lm	1.29A	0.64A	0.44A	6.3 kg / 13.9 lbs
UPLW-200-xxx-W6C	200W	24,000lm	1.71A	0.85A	0.59A	7.5 kg / 16.5 lbs
UPLW-240-xxx-W6C	240W	28,800lm	2.04A	1.02A	0.71A	8.6 kg / 18.9 lbs
UPLW-300-xxx-W6C	300W	36,000lm	2.54A	1.27A	0.88A	9.5 kg / 20.9 lbs



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Cob Lights

Designed to be used in most fixtures, cob bulbs can be used in a variety of applications. They can be oriented with the socket at the top, bottom or side.



Before-480w



After-60w



Part Number	Lumen Output			Power Consumption	Dimensions
	Warm 2700-3500k	Day 4000-5000k	Cool 5500-6700k		
UPCL-006-E40xW	648lm	708lm	720lm	6W	40 x 100mm
UPCL-009-E40xW	972lm	1062lm	1080lm	9W	48 x 110mm
UPCL-012-E40xW	1296lm	1416lm	1440lm	12W	62 x 150mm
UPCL-015-E40xW	1620lm	1770lm	1800lm	15W	62 x 150mm
UPCL-020-E40xW	2160lm	2360lm	2400lm	20W	62 x 185mm
UPCL-030-E40xW	3240lm	3540lm	3600lm	30W	128 x 210mm
UPCL-040-E40xW	4320lm	4720lm	4800lm	40W	128 x 210mm
UPCL-050-E40xW	5400lm	5900lm	6000lm	50W	128 x 230mm
UPCL-060-E40xW	6480lm	7080lm	7200lm	60W	128 x 240mm
UPCL-070-E40xW	7560lm	8260lm	8400lm	70W	128 x 260mm
UPCL-080-E40xW	8640lm	9440lm	9600lm	80W	128 x 260mm
UPCL-090-E40xW	9720lm	10620lm	10800lm	90W	128 x 260mm

Garden Lights

LED PARKING GARAGE CANOPY RETROFIT

Garden lights are designed to be used in fixtures that are oriented with the socket at the bottom and stubby lights are designed to be used with top mounted sockets.

Can be used in carriage lights or similar fixtures.



RoHS Compliant

Stubby Lights

POST TOP LIGHT RETROFIT



Part Number	Power Consumption	Input Voltage	Lumen Output	
UPLW-030Exx-A3xC	30W	100-277 347-480VAC	3600lm	
UPLW-040Exx-A3xC	40W		4800lm	
UPLW-050Exx-A3xC	50W		6000lm	
UPLW-060Exx-A3xC	60W		7200lm	
UPLW-025Exx-A2xC	25W		2900lm	
UPLW-030Exx-A2xC	30W		3600lm	
UPLW-040Exx-A2xC	40W		4800lm	
UPLW-050Exx-A2xC	50W		6000lm	
UPLW-025Exx-A2xC	60W		7200lm	
UPLW-030Exx-B2xC	30W		4700lm	
UPLW-040Exx-B2xC	40W		6000lm	
UPLW-050Exx-B2xC	50W		7000lm	
UPLW-060Exx-B2xC	60W		8400lm	

30W = 100W
40W = 125W
50W = 150W
60W = 175W
80W = 250W

REPLACED



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Z Series LED Street Light Fixture Specifications

5 YEAR WARRANTY

IP66
Outdoor
Rated
NEMA 4+

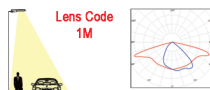
IK08
Impact
Resistant

Fully adjustable mounting solution for flexible installation.
Mounting is possible with 0-15 offset from vertical or horizontal axis.
Mounting apparatus pole size: \varnothing 60mm (fits up to 2.25" pole)



LED Power	Lumen Output (\pm 5%)	Current Draw @ Voltage AC	Weight	Dimensions
35W	3,850lm	0.36A 0.21A 0.18A 0.16A	5.3kg / 11.7 lbs	431x316x136mm / 17.0x12.4x5.4"
65W	7,150lm	0.67A 0.39A 0.33A 0.29A	6.1kg / 13.4 lbs	504x316x136mm / 19.8x12.4x5.4"
100W	11,000lm	1.03A 0.59A 0.51A 0.45A	7.3kg / 16.1 lbs	577x316x136mm / 22.7x12.4x5.4"
135W	14,850lm	1.39A 0.80A 0.69A 0.60A	8.2kg / 18.1 lbs	650x316x136mm / 25.6x12.4x5.4"
165W	18,150lm	1.70A 0.98A 0.85A 0.74A	9.0kg / 19.8 lbs	723x316x136mm / 28.5x12.4x5.4"
200W	22,000lm	2.06A 1.19A 1.03A 0.89A	9.9kg / 21.8 lbs	796x316x136mm / 31.3x12.4x5.4"
240W	25,300lm	2.37A 1.37A 1.18A 1.03A	10.8kg / 23.8 lbs	869x316x136mm / 34.2x12.4x5.4"

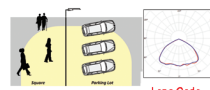
Lens Options



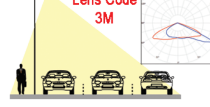
Applications: Single Driveway | Walkway/Cycleway | Branch Road



Applications: Two Driveway | Driveway Entrance | Urban Road



Applications: Parking Lot | Square | Area



Applications: Three Driveway | Highway | Parking Lot / Area

General Specifications

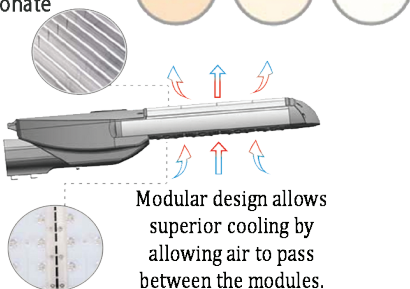
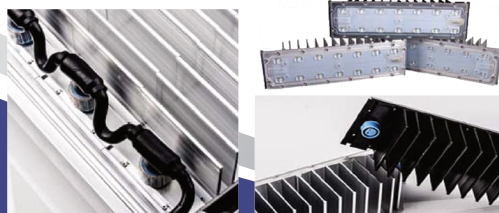
Operating Temperature: -40°C to + 50°C
AC Input Voltage: 100-240V / 277VAC
DC Input: 24VDC
Construction: Anodized Aluminum
Lumen Maintenance: >100,000 Hours -L₇₀
@25°C (77°F)

Total Harmonic Distortion: 20%
Minimum CRI: 70
Power Factor: \geq 0.9
Lens Material: UV Stabilized Polycarbonate

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Profiles available upon request



Modular design for easy replacement of damaged components.



Modular design allows superior cooling by allowing air to pass between the modules.



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Street Light Adapters

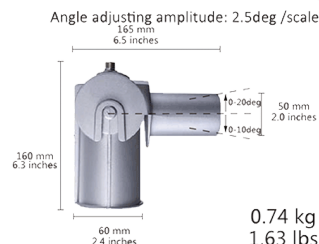
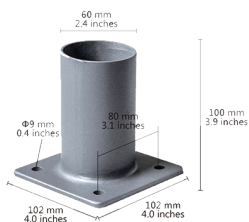
A19 style bulbs in a variety of DC voltages

High-pressure die cast aluminium providing sturdy and durable, multi-angle adjustment.

These adapters can be used for $\Phi 60$ mm poles, meeting the requirements for both $\Phi 50$ mm and $\Phi 60$ mm luminaire mounts.

Color Options.

- - Black
- - Silver



0.74 kg
1.63 lbs

Carriage Style Area Lighting

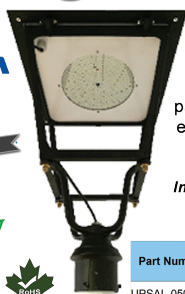
Replaces existing Metal Halide fixtures up to 200 Watts

Perfect replacement for aging carriage style fixtures in parks or city streets. Combine traditional looks with modern energy efficiency that can match your existing light color to maintain the look and feel of your streets or parks.

International Dark-Sky association compliant

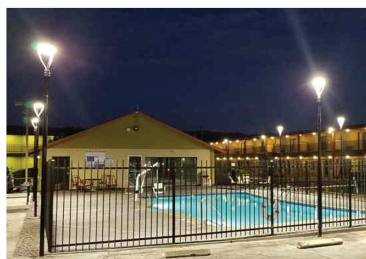


LEAD-Free Mercury-Free



Part Number	Power Consumption	Input Voltage	Cool 5700°k	Day 5000°k	Natural 4000°k	Warm 3000°k	Replaces Metal Halide
UPSAL-050C1	50W	100-277 347-480VAC	5,870lm	5,750lm	5,750lm	5,635lm	250W

UFO Style Street Area Lighting



LEAD-Free Mercury-Free

Light Production: 120 lumens per watt
Pattern: Type V distribution
Support Arms: Extruded aluminum
Lens: Clear tempered glass lens
Housing: Precision die-cast aluminum

Part Number	Power Consumption	Lumen Output			
		Cool 5700°k	Day 5000°k	Natural 4100°k	Warm 2700°k
UPSAL-050U1	50W	6,000lm	5,880lm	5,880lm	5,780lm
UPSAL-075U1	75W	9,000lm	7,200lm	7,200lm	7,050lm
UPSAL-100U1	100W	12,000lm	11,760lm	11,760lm	11,525lm
UPSAL-170U1	170W	20,400lm	19,990lm	19,990lm	19,590lm



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LED Shoebox Lighting

Parking lot and area lighting



Optional light sensor

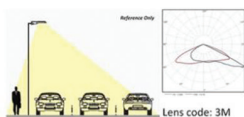
Square pole or wall
mount fixed bracketAdjustable wall mount
bracketAdjustable round
pipe mount

150W

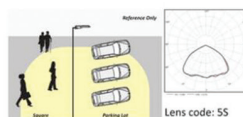


Part Number	Power Consumption	Input Voltage	Lumen Output
UPIL-SB1A-150	150W	100-277	19,500
UPIL-SB1A-300	300W		39,000
UPIL-SB1B-150	150W	347-480	19,500
UPIL-SB1B-300	300W		39,000

Various Lens options available



Lens code: 3M



Lens code: 5S

300W
Shoebox

Dusk to Dawn Lighting

Replaces Traditional Dusk to Dawn



Optional Mounting Kit



IP66
Outdoor
Rated
NEMA 4+

Replacement lamp to take the place of up to 175W metal halide. Ideal replacement for traditional yard lighting.

Fixture can be mounted directly on a flat surface or on a mounting pipe up to 2" in diameter.



The Brighter Choice



LEAD-Free



Mercury-Free



Intertek



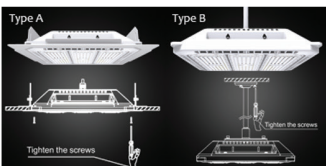
RoHS

Part Number	Power Consumption	Input Voltage	Lumen Output				Replaces Metal Halide
			Cool 5700°k	Day 5000°k	Natural 4000°k	Warm 3000°k	
UPIL-DT1-050	50W	100-277 VAC	5,000lm	5,000lm	5,000lm	5,000lm	175W

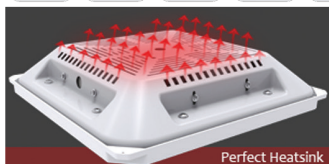


Unplugged Power Systems
The Other Power Company.ca

Gas Station Canopy Lighting



Part Number	Power Consumption	Input Voltage	Lumen Output	Beam Angle
UPIL-GS1-080	60W	100-277 347-480 VAC	8400	80°
UPIL-GS1-080	80W		11,200	
UPIL-GS1-100	100W		14,000	
UPIL-GS1-120	120W		16,800	
UPIL-GS1-150	150W		21,000	



Perfect Heatsink

LED Garage Lighting

Designed for parking structures and low ceilings

Designed for standard 1/2" watertight conduit connections

135 Lm / Watt



IES Illuminating Engineering Society
IES Profiles available upon request

New Technology PCB Board

7W/M.K.
WAGO Connector

Fresnel PC lens: Excellent lighting effect.

Betop's driver

Metal Connector

Meta 2576 Chips

Occupancy sensor integrated inside the lamp

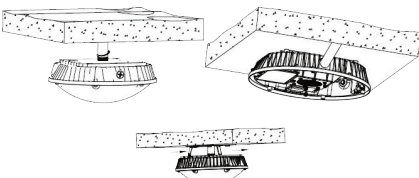
Breathing Device

ADC12 aluminum heatsink

3 types installation ways:

1. Surface-mounted
2. NPT
3. Pole-mounted

Part Number	Power Draw	Lumen Output	Light Color
UPSM-040G1	40W	5,400	5000°k
UPSM-060G1	60W	8,100	5000°k



Unplugged Power Systems
The Other Power Company.ca

LED Wall Pack Lighting

Maintains the same look as traditional lights

Cover lens made from PVC plastic instead of glass for easier installation and better durability in hostile environments or areas with high rates of vandalism. Interface is standard 1/2" watertight conduit connections.

Part Number	Style	Power Draw	Lumen Output
UPIL-WP1-025	Type 1	25	3000
UPIL-WP1-030	Type 1	30	3000
UPIL-WP2-060	Type 2	60	7200
UPIL-WP2-080	Type 2	80	9600
UPIL-WP2-100	Type 2	100	12000
UPIL-WP2-120	Type 2	120	14400
UPIL-WP2-150	Type 2	150	18000
UPIL-WP3-025	Type 3	25	2500
UPIL-WP3-035	Type 3	35	3500

Type 1



Type 3



Type 2

1 • 2 • 3 EASY INSTALLATION



Open Fixture, mount backing plate to junction box or wall.



Hang front housing on hinges and make connections.



Close housing and tighten screws.



illuminating
ENGINEERING SOCIETY

IES Profiles available upon request

LED Stadium Lighting

High power lighting for high-mast applications



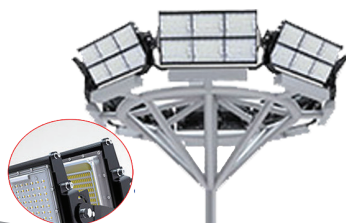
240W 360W 480W 720W 960W



Ceiling installation



Wall installation



Part Number	Power Draw	Lumen Output	Light Color	Beam Angle
UPSM-240S1-x	240W	31,200.00	5100°k 5700°k 6500°k	30°
UPSM-360S1-x	360W	46,800.00		60°
UPSM-480S1-x	480W	62,400.00		100°
UPSM-720S1-x	720W	93,600.00		120°
UPSM-960S1-x	960W	124,800.00		



Unplugged Power Systems
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Z-Series Modular Flood Lights

LUXEON
BY PHILIPS LUMILEDS



IP66
IK10

LM-79
LM-80



UPS Part Number	Wattage	Lumen Output	Color Temperature	Beam Angle	Dimensions (mm)	Weight (kg)
UPFL61-040T7-xxxxZ	40W	4400	Optional	Optional	293x340x156	3.1
UPFL61-080T7-xxxxZ	80W	8800	3000K	60°	366x340x156	4.3
UPFL61-120T7-xxxxZ	120W	13200	4000K	90°	439x340x156	5.2
UPFL61-160T7-xxxxZ	160W	17600	5000K	110°	512x340x156	6
UPFL61-200T7-xxxxZ	200W	22000	5700K		585x340x156	7
UPFL61-240T7-xxxxZ	240W	26400			658x340x156	7.8



100 W

Light color options include;
warm white, day white, cool
white, red, green, blue, and
RGB with controller



10 W



20 W



30 W



50 W



70 W

AC Flood Lights

90-264 VAC

Great for architectural, accent lighting, or just getting rid of a large dark area. Replace your existing quartz-halogen using one of these energy efficient LED floodlights. Sizes from 10 to 100 watts available to replace 100 to 4000 watts of quartz-halogen.

DC Flood Lights

8-32 VDC

Available in 10, 20, 30 and 50 Watts.

These floodlights are specifically designed for use with DC power. Great for off-grid applications at camps, construction sites, homes, and more!

LED flood lights ~AC~ AC90-264V/50-60Hz

Part Number	Power(W)	Lumen Output			Light Efficiency	Replaces Quartz-Halogen	Beam Angle
		Warm White	Day White	Cool White			
UPLT01-010T2-120x	10W	790	860	940	94 lm/w	75-100W	120°
UPLT01-020T2-120x	20W	1580	1720	1880	94 lm/w	150-200W	60° /120°
UPLT01-030T2-120x	30W	2370	2580	2820	94 lm/w	250-300W	60° /120°
UPLT01-050T2-120x	50W	3950	4300	4700	94 lm/w	450-500W	60° /120°
UPLT01-060T2-120x	60W	4740	5160	5640	94 lm/w	550-600W	120°
UPLT11-070T2-120x	70W	5530	6020	6580	94 lm/w	650-700W	120°
UPLT11-080T2-120x	80W	6320	6880	7520	94 lm/w	750-800W	120°
UPLT11-100T2-120x	100W	7900	8600	9400	94 lm/w	900-1000W	120°

LED flood lights ~DC~ 8-32VDC

UPLT01-010T5-120x	10W	790	860	940	94 lm/w	75-100W	120°
UPLT01-020T5-120x	20W	1580	1730	1880	94 lm/w	150-200W	60° /120°
UPLT01-030T5-120x	30W	2370	2580	2820	94 lm/w	250-300W	60° /120°
UPLT01-050T5-120x	50W	3950	4300	4700	94 lm/w	450-500W	60° /120°

LEDs have a 50,000 hour lifespan. At 12 hours a day that's over 11 years!

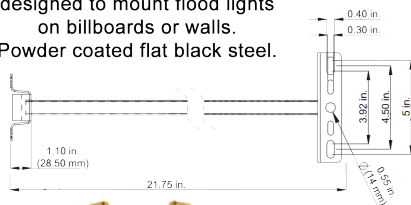


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Billboard Brackets



LED Flood light brackets designed to mount flood lights on billboards or walls. Powder coated flat black steel.



Rechargeable Flood Lights



Use these portable, rechargeable LED flood lights to get light where you want it when you need it, time after time after time. They're great for emergencies! Each comes with an AC plug-in adapter and a DC car adapter. Available in a variety of colours.

Charging Time: 6-8 Hours

Working Time: 4-5 Hours

Beam Angle: 120°

Telescopic Stand

For use in construction, painting, and any other indoor or outdoor work. Rugged & collapsible, it extends to 6 feet.



Portable Work Lights



Power (W)	Lumen Output	Quartz Halogen Equivalent
10W	940	100W
20W	1880	200W
30W	2820	300W
50W	4700	500W
70W	6580	600W

Safe for generator use, power fluctuations will not damage lights. Does not create heat, unlike quartz bulbs.

Beam Angle: 120°
Light Efficiency (Cool White):
100 Lumens/Watt



LED Automotive

LED automotive replacement lights for all styles of incandescent bulbs. Save energy without replacing the fixture. All LED automotive lights are available in Cool White as a standard, as well as a variety of colors.

LEDs make great replacements for RVs and boats to extend battery life.

Brake & Signal Lights

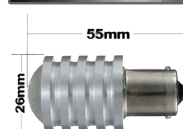
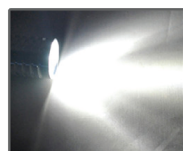


Brake and tail light replacement bulbs. Available in Canbus or standard configurations. Available as 1156, 1157, 3156, 3157, 7440, & 7441. Also available in various brightness configurations from 13 to 30 LED chips.

Cree Backup Lights

Available in Amber/Yellow CREE 5W LEDs - They give off the most light output than any other car LED bulb on the market. Provides wide angle light perfect for tail light, brake light, or backup bulb functions. 300 lumens light output surpasses all other LED bulbs on the market!

1 Year Warranty
Long Life - Low Heat
CREE R5 Chip - Brightest on the market
Available bases: 1156 (7506/1141), 7440, & 3156



Festoon Lights



Replacement bulbs for festoon style dome lights. 2W festoon replaces 25W incandescent. All sizes available from 31mm to 41mm in a variety of brightnesses. LED dome and interior lights run much cooler than their incandescent counterparts and will not cause melting or yellowing of your light covers.

Instrumentation & Clearance Lights



T10/914 and BA9S instrumentation, clearance and interior lights. These lights are also sometimes used as clearance or signal lights. LED equivalents available as 1.5W, 2.5W, 3.5W and 4.5W to replace up to a 30W incandescent bulb. Perfect for interior lighting of RVs and Campers!



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Automotive and Marine Bar Lights

Pro Series LED Light Bars

- Operating Voltage: 10-30V DC
- Lumens Output: 90 LM/Watt
- Waterproof rate: IP 65
- High Intensity Epsitar LEDs
- Optional Case Color: Black or White
- Color Temperature: 6000K
- Material: Diecast aluminum housing
- Lens material: Tempered glass
- Optional Beam: 60 / 30 degree
- 30000 hours above life time



Length	Wattage	Dimensions (mm)	Lumen Output
7.5"	36W	330*180*150	324
13.5"	72W	510*180*150	648
21.5"	120W	690*180*150	1080
31.5"	180W	950*180*150	1620
42"	240W	1200*180*150	2160

Elite Series LED Light Bars

- Voltage: 9-32 V
- Lumen Output: 100 LM/Watt
- LED Type: CREE Premium
- Beam Type: Pencil beam 8°
Flood beam 40°
- LED color temperature: 5000°K, 6500°K
- Working life: 50000 hours
- Working temperature: -40~ 85°C
- Waterproof rating: IP67
- Material: 6063 aluminum, stainless steel bracket, PC Lens.



CREE

Length	Wattage	Dimensions (mm)	Lumen Output
4"	18W	99*73*107	1800
7"	36W	167*73*107	3600
12"	72W	305*73*107	7200
17"	108W	438*73*107	10800
20"	126W	505*73*107	12600
28"	180W	715*73*107	18000
36"	234W	914*73*107	23400

All lights are available as
spot lights (30°),
flood lights (60°),
or custom combinations of both.

Spot Light

Flood Light

Quad Crescent Series LED Light Bars

- Voltage: 9-32 V
- Lumens Output: 100 LM/Watt
- LED Type: CREE Premium
- Beam Type: Pencil beam 8°
Flood beam 40°
- LED color temperature: 5000°K, 6500°K
- Working life: 50000 hours
- Working temperature: -40~ 85°C
- Waterproof rating: IP67
- Material: 6063 aluminum, stainless steel bracket, PC Lens.



CREE

Length	Wattage	Lumen Output
3.9"	36W	3600
6.57"	72W	7200
9.25"	108W	10800
12"	144W	14400
14.57"	180W	18000
17.24"	216W	21600

Arc Quad Crescent Series LED Light Bars

Curved to provide wider coverage for vehicular mounting

- Operating Voltage: 10-30V DC
- Waterproof rating: IP 67
- LED Type: 2 Rows of 3W CREE LED
- Optional Color: Black or White
- Color Temperature: 6000K
- Material: Aluminum housing
- Lens material: PC
- Beam: Spot / Flood/ Combo
- >30000 hour service life



CREE

Length	Wattage	Dimensions (mm)	Lumen Output
21.5"	120W	71.5*13.5*21.5	12000
31.5"	180W	97*13.5*21.5	18000
41.5"	240W	122.5*13.5*21.5	24000
50"	288W	141.5*13.5*21.5	28800

Questions? Call or Email Us Today!

1-877-4-WND-PWR

(1-877-496-3797)

Sales@TheOtherPowerCompany.ca

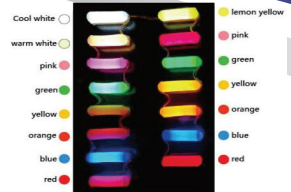


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Replacement for traditional neon tubes



Colors



Replacement LED for duplicating the look and feel of glass neon tubes without the expense. Substantially less fragile and easier to work with, LED neon is perfect for any project, indoors or out.

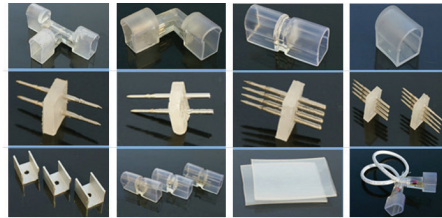
Neon Type Numbers:



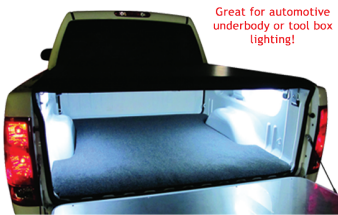
Available in a range of colors including RGB color changing.

Color can be controlled by any RGB controller including standard or DMX.

Accessories



LED Strip Lighting



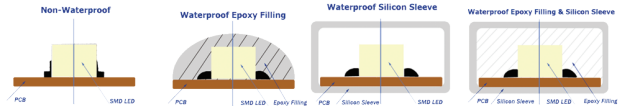
Great for automotive underbody or tool box lighting!



LED strip lighting is great for stairs, counter tops, valance, or toekick.

LED strip lights are great for adding accent or indirect lighting to any room of your house. They are also great for outdoors and can be used in place of Christmas lights. The low power consumption means that power costs won't be an issue.

We carry a wide variety of LED strip light ranging from inexpensive non-waterproof versions all the way up to ruggedized waterproof versions designed to be used inside truck tool boxes or even under water.



LED strip light comes in a variety of brightness levels as well as a variety of colors. The standard color set is red, green, blue, yellow, white and warm white. RGB color changing strips are also available and requires a controller to operate.



Controllers and Dimmers



All strips are considered to be dimmable using dedicated DC dimmers. For RGB type strips, controllers are available as inline wired, simple infrared, or longer range radio frequency controllers. Sound sensitive controllers are also available to make the LED strip light change color with the music.



Sign LED Modules

Flexible and Bright



LED sign modules are designed for channel letters, sign lighting, under-cabinet lighting, store window lighting, display case lighting, and more! The single-color or color-changing RGB LED modules are available in strands of at least 25 and are easy to install with their adhesive backings and screw holes. Modules are sold in bags of 100.

LED Drivers

For use with LED strip, Neon, or sign modules

Part Number	Power Rating	Input Voltage	IP Rating	Output Voltage	Output Current
ELG-75-12A	75W	100~ 305VAC	IP65	12VDC	5A
ELG-75-24A				24VDC	3.15A
ELG-100-12A	12VDC			4A	
ELG-100-24A	24VDC			2.66A	
ELG-150-12A	150W			12VDC	10A
ELG-150-24A				24VDC	6.25A
ELG-200-12A	200W	12VDC	16A		
ELG-200-24A		24VDC	8.4A		
ELG-240-24A	240W			24VDC	10A
LRS-35-12	35W	85~264VAC	IP30	12VDC	3A
LRS-35-24				24VDC	1.5A
LRS-50-12	12VDC			4.2A	
LRS-50-24	24VDC			2.2A	
LRS-75-12	75W			12VDC	6A
LRS-75-24				24VDC	3.2A
LRS-100-12	100W	12VDC	8.5A		
LRS-100-24		24VDC	4.5A		
LRS-150F-12	150W	90~132VAC Or 180~264VAC	12VDC	12.5A	
LRS-150F-24			24VDC	6.5A	
LRS-200-12	12VDC		17A		
LRS-200-24	24VDC		8.8A		
LRS-350-12	350W		12VDC	29A	
LRS-350-24			24VDC	14.6A	



Part Number	Power Rating	Input Voltage	IP Rating	Output Voltage	Output Current
LPV-20-12	20W	90~ 264 VAC	IP67	12VDC	1.67A
LPV-20-24				24VDC	.84A
LPV-35-12				12VDC	3A
LPV-35-24	35W			24VDC	1.5A
LPV-60-12	60W			12VDC	5A
LPV-60-24				24VDC	2.5A
LPV-100-12				100W	12VDC
LPV-100-24	24VDC			4.2A	
LPV-150-12	150W			12VDC	10A
LPV-150-24				24VDC	6.3A



LRS Series

ELG Series



Call for prices on your LED replacement drivers for all types of flood lights, highbay, and street lighting.

We offer ALL Meanwell drivers including the popular HLG series in regular or dimmable.



LED Grow Lights

Indoor farming at its finest

MARS HYDRO





**As Seen in
HIGH TIMES**

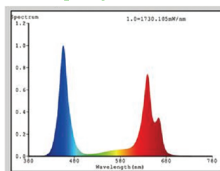


LED grow lights featured in High Times magazine with selectable light output for plant vegetation and flowering cycles.

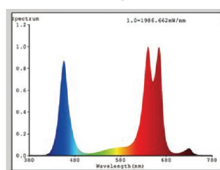
As an authorized distributor of Mars Hydro products, we offer our clients the same pricing offered on the manufacturer's web site.

Item No.	Image	Draw Power	Dimension	N.W	Amp		Coverage	
MarsPro Series					120V	240V	Imperial	Metric
EPISTAR160		380W	520x340x100mm	10kg	3.1A	1.5A	2'x4'	61cm x 122cm
EPISTAR320		750W	590x590x100mm	17kg	6.4A	3.2A	4'x4'	122cm x 122cm
CREE128		340W	570x320x100mm	10kg	2.8A	1.4A	2'x4'	61cm x 122cm
CREE256		670W	570x520x100mm	17kg	5.7A	2.8A	4'x4'	122cm x 122cm
MarsProll Series								
EPISTAR80		166W	292x264x100mm	5kg	1.37A	0.67A	3'x3'	92cm x 92cm
EPISTAR120		250W	559x264x100mm	7kg	2.13A	1.07A	3.5'x3'	105cm x 92cm
EPISTAR160		380W	520x340x100mm	10kg	3.1A	1.5A	2'x4'	61cm x 122cm
EPISTAR320		750W	590x590x100mm	17kg	6.4A	3.2A	4'x4'	122cm x 122cm
CREE128		340W	570x320x100mm	10kg	2.8A	1.4A	2'x4'	61cm x 122cm
CREE256		670W	570x520x100mm	17kg	5.7A	2.8A	4'x4'	122cm x 122cm
MarsII Series								
MARSII 400		200W	340x340x90mm	7kg	1.5A	0.8A	2.5'x2.5'	76cm x 76cm
MARSII 700		340W	390X380X90mm	9kg	2.3A	1.2A	3'x3'	92cm x 92cm
MARSII 900		450W	420x420x90mm	11kg	3.5A	1.8A	3.5'x3.5'	105cm x 105cm
MARSII 1200		600W	460X460X90mm	14kg	4.7A	2.4A	4'x4'	122cm x 122cm
MARSII 1600		760W	520X520X90mm	17kg	6.5A	3.2A	4.2'x4.2'	128cm x 128cm
Reflector Series								
REFLECTOR 48		96W	292x264x50mm	4kg	0.9A	0.5A	2'x2'	61cm x 61cm
REFLECTOR 96		192W	559x264x50mm	6kg	1.8A	0.9A	2'x3'	61cm x 92cm
REFLECTOR 144		294W	837x264x50mm	9kg	2.7A	1.3A	2'x4'	61cm x 122cm
REFLECTOR 192		384W	560x477x50mm	11kg	3.5A	1.8A	4'x4'	122cm x 122cm

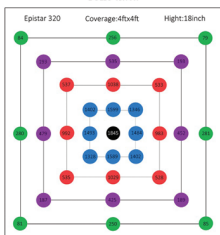
Veg Spectrum



Bloom Spectrum



PAR data



**Hanger
Kits**

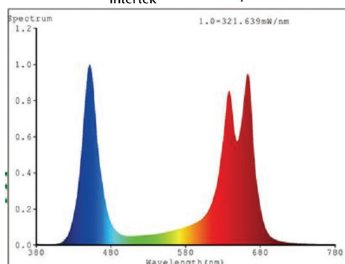


Bloom and Veg Controls



Unplugged Power Systems
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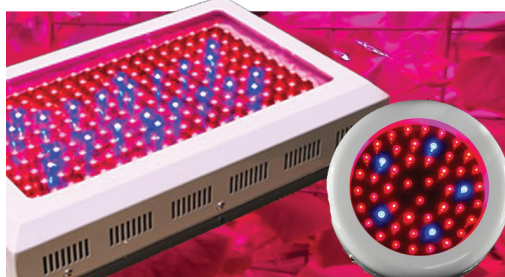
LED Light bars are perfect for supplemental side lighting of tall plants or starting seedlings



LED Light Item No	Draw Power	Dimension	N.W	Amp(120v)	Amp(240v)
Bar 12-60cm	23w±5%	60cm	1.0kg	0.19A	0.11A
Bar 24-120cm	46w±5%	120cm	1.7kg	0.38A	0.22A
Bar 24-60cm	46w±5%	60cm	1.5kg	0.38A	0.22A
Bar 48-120cm	92w±5%	120cm	2.5kg	0.76A	0.44A

Growmaster Series

These grow lights are considered a utility category luminary that is effective for most plants through their development and flowering stages. They come as a tri-color combination using 430nm, 630nm, and 660nm (narrow band) light.



Part Number	Power (W)	Dimensions
ULGL-050T3A	50W	Φ175x60mm
UPGL-090T3	90W	Φ270x60mm
UPGL-100T1	100W	Φ270x60mm
UPGL-120T1	120W	420x212x62mm
UPGL-150T1	150W	400x212x62mm
UPGL-288T1	288W	440x340x70mm
UPGL-576T1	576W	510x310x79mm

Blackstar Series

Designed with the professional grower in mind, the Blackstar line allows the end user to customize the light to meet the exact needs of the plant that will be grown.

Blackstar series LEDs are underdriven to extend their service life.

Light Colors Available

630nm, 120° red
630nm, 90° red
660nm, 120° red
460nm, 120° blue
12000k, 120° white
850nm, 120° IR
410nm, 120° UV



Part Number	Power (W)	Dimensions
ULGLB-120T1	120W	400x212x62mm
UPGLB-160T1	160W	400x212x62mm
UPGLB-336T1	336W	491x321x70mm
UPGLB-400T1	400W	400x212x62mm



Solar Light Bulb Kit



Kit includes self contained light and battery, detachable solar charging panel with adhesive backing, and USB charging cable. Provides approx. 3 hours of light per charge. Makes a great first off grid system!

Part Number UPGE-HD-001

Camping and Emergency Light

36 LED brilliant light
Battery can be charged by onboard solar panel, dynamo crank, or can also use additional batteries in lower compartment. Can charge cell phone with USB connection.
Part Number UPGE-LS-360



Solar Dock Lights

Automatic on-at-dusk
Comes with 6 bright white LEDs
Size: 8.5"x6"x1"
Durable, weatherproof low profile construction make these lights a perfect choice for lighting docks, decks, pathways, or anywhere there is foot traffic.

Part Number	Description	Lumen Output
UPGE-PVDL1-6CW	Cool White	150
UPGE-PVDL1-6WW	Warm White	130
UPGE-PVDL1-6GN	Green	120
UPGE-PVDL1-6RD	Red	120
UPGE-PVDL1-6BL	Blue	120

Solar Deck Lighting

LED Deck lighting comes in several styles of rugged stainless steel fixtures. Our lights work reliably in summer and winter, providing additional safety and security to your property.

- Weatherproof stainless steel construction
- 4 Bright white LED lights or warm white LED
- No wiring required
- Solar powered
- Rechargeable Ni-MH AAA 600mAh/1.2V battery
- 6-8 hours of illumination from fully charged
- Dimensions 14 x 9 x 2.3 cm

Part Number UPGE-PV9-3CW (Cool White)
UPGE-PV9-3CW (Warm White)



Solar Walkway Lights

Remote control allows simple operation and mode selection. Easy installation with no cables to run or trenches to dig. Can be set as motion sensitive or dusk to dawn (See modes below).

Will last for 2-3 days without sunlight. Solar panel is fully adjustable to maximize the solar energy conversion. Remote allows lights to be turned off if darkness is required.

Working Modes:

Mode L - Runs all night - 100% for first 2 hours, 80% for next 2 hours, and then 50% until dawn. (Lights for 1.5 days when fully charged)

Mode T - Runs all night - 100% for first 2 hours, 60% for next 2 hours, then off. (Lights for 3 days when fully charged)

Mode U - Runs all night - 100% for 2 hours, 60% for next 2 hours, then idles at 20% with motion sensor bringing it to 60%. (Lights for 2 days on average when fully charged)

Mode M - 30% light all night, with 100% when motion sensor is triggered. (Lights for 2.5 days on average when fully charged)

Part Number	LED Power	Lumen Output	Mounting Height	Battery Capacity
UPSLLF-x08-03	8	800	3-6M	4400mAh
UPSLLF-x12-03	12	1200	3-6M	8800mAh
UPSLLF-x15-02	15	1500	2-4M	8800mAh
UPSLLF-x20-04	20	2000	3-4M	10,400mAh
UPSLLF-x30-04	30	3000	4-6M	15,600mAh

Strawberry Globe



Jar Style Globe



Moon Globe



Solar Panel Adjustable



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DC Light Bulbs

A19 style bulbs in a variety of DC voltages

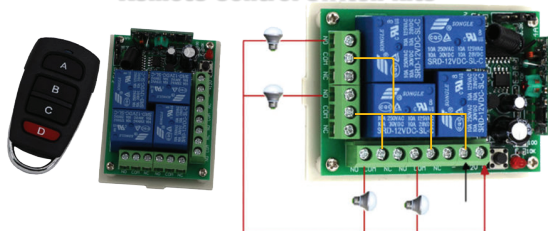
LED Lights compatible with regular AC light fixtures. These lights can be use in conjunction with batteries to provide lighting for your camp, boat, RV, or off-grid home.



UPS Part Number	Description	Power	Input Voltage	Replaces Incandescent
12VDC				
UPRG-SA19AE27-0312C	A19 DC Lightbulb - Cool White	3W	12VDC	25 W
UPRG-SA19AE27-0512C	A19 DC Lightbulb - Cool White	5W	12VDC	40 W
UPRG-SA19AE27-0712C	A19 DC Lightbulb - Cool White	7W	12VDC	60 W
UPRG-SA19AE27-0912C	A19 DC Lightbulb - Cool White	9W	12VDC	100 W
UPRG-SA19AE27-1212C	A19 DC Lightbulb - Cool White	12W	12VDC	125 W
UPRG-SA19AE27-0312W	A19 DC Lightbulb - Warm White	3W	12VDC	25 W
UPRG-SA19AE27-0512W	A19 DC Lightbulb - Warm White	5W	12VDC	40 W
UPRG-SA19AE27-0712W	A19 DC Lightbulb - Warm White	7W	12VDC	60 W
UPRG-SA19AE27-0912W	A19 DC Lightbulb - Warm White	9W	12VDC	100 W
UPRG-SA19AE27-1212W	A19 DC Lightbulb - Warm White	12W	12VDC	125 W
24VDC				
UPRG-SA19AE27-0324C	A19 DC Lightbulb - Cool White	3W	24VDC	25 W
UPRG-SA19AE27-0524C	A19 DC Lightbulb - Cool White	5W	24VDC	40 W
UPRG-SA19AE27-0724C	A19 DC Lightbulb - Cool White	7W	24VDC	60 W
UPRG-SA19AE27-0924C	A19 DC Lightbulb - Cool White	9W	24VDC	100 W
UPRG-SA19AE27-1224C	A19 DC Lightbulb - Cool White	12W	24VDC	125 W
UPRG-SA19AE27-0324W	A19 DC Lightbulb - Warm White	3W	24VDC	25 W
UPRG-SA19AE27-0524W	A19 DC Lightbulb - Warm White	5W	24VDC	40 W
UPRG-SA19AE27-0724W	A19 DC Lightbulb - Warm White	7W	24VDC	60 W
UPRG-SA19AE27-0924W	A19 DC Lightbulb - Warm White	9W	24VDC	100 W
UPRG-SA19AE27-1224W	A19 DC Lightbulb - Warm White	12W	24VDC	125 W
36VDC				
UPRG-SA19AE27-0336C	A19 DC Lightbulb - Cool White	3W	36VDC	25 W
UPRG-SA19AE27-0536C	A19 DC Lightbulb - Cool White	5W	36VDC	40 W
UPRG-SA19AE27-0736C	A19 DC Lightbulb - Cool White	7W	36VDC	60 W
UPRG-SA19AE27-0936C	A19 DC Lightbulb - Cool White	9W	36VDC	100 W
UPRG-SA19AE27-1236C	A19 DC Lightbulb - Cool White	12W	36VDC	125 W
UPRG-SA19AE27-0336W	A19 DC Lightbulb - Warm White	3W	36VDC	25 W
UPRG-SA19AE27-0536W	A19 DC Lightbulb - Warm White	5W	36VDC	40 W
UPRG-SA19AE27-0736W	A19 DC Lightbulb - Warm White	7W	36VDC	60 W
UPRG-SA19AE27-0936W	A19 DC Lightbulb - Warm White	9W	36VDC	100 W
UPRG-SA19AE27-1236W	A19 DC Lightbulb - Warm White	12W	36VDC	125 W

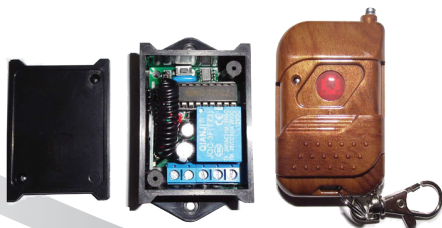
DC Radio Controls

Remote control switch kits



Available as momentary contact - Switch stays on as long as the button is pressed, or toggle - switch changes state when button is pressed.

May not appear exactly as shown.



Specifications:

Working Voltage: DC12V
 Standby Current: < 6mA
 Operating Current: 13 mA
 Working Temperature: -40°C to +80°C
 Receiver Sensitivity : > -105dBm
 Working Frequency :315MHz Standard
 (260-440MHZ available)
 Output voltage: Max 32VDC or
 Max 250VAC
 Nominal Output Current : < 3A
 Max Load Current:10A
 Control Range: 200M
 Code Type: Fixed code with code
 learning available.

UPS Part Number	Channels	Switching Current DC	Switching Current AC
Momentary Contact			
UPRFS1-1201-M	1	10A @ 12VDC	10A @ 250VAC
UPRFS1-1202-M	2		
UPRFS1-1204-M	4		
Toggle Contact			
UPRFS1-1201-T	1	10A @ 12VDC	10A @ 250VAC
UPRFS1-1202-T	2		
UPRFS1-1204-T	4		
Spare / Replacement Remote			
UPRFS1-REM01	1	Please specify frequency when ordering.	
UPRFS1-REM02	2		
UPRFS1-REM04	4		



Deep well Pumps

DC Powered Submersible Pumps



Unplugged Part Number	Volt	Flow Rate (L/Min)	Max Lift	Power Draw (A)
UPWP-DWD1-006-70SCG1	12	6	70	8
UPWP-DWD1-006-70SCG1	24	6	70	8
UPWP-DWD5-033-15SCG1	12-24	33	15	2.5
UPWP-DWD5-033-45SCG1	12-24	33	45	7.5
UPWP-DWD5-033-80SCG1	12-24	33	80	12.5
UPWP-DWD5-033-50SCG1	24-36	50	10	6.25
UPWP-DWD5-050-100SCG1	24-36	50	100	70.8
UPWP-DWD5-050-200SCG1	24-36	50	200	116.6

Other deep well pumps also available

Cottage Water Pump Kit

DC Powered Pump and pressure tank

Perfect for cottages or boat installations. Kit includes pressure pump(s), pressure tank, and relief valve mounted on an anti-vibration footing.



Water Pumps					
UPS Part Number	Volt	Flow (L/Min)	Pressure (PSI)	Power Draw (A)	Picture
UPWP-D1D1-012-00M1M1-035 + PT	12	12.5	35	7	
UPWP-D1D2-012-00M1M1-035 + PT	24				
UPWP-D1D1-034-00M1M1-040 + PT	12	34	40	12	
UPWP-D1D2-034-00M1M1-040 + PT	24				




Water Pumps

DC Powered Pressure Pumps

UPS Part Number	Volt	Flow (L/Min)	Pressure (PSI)	Power Draw (A)	Picture
UPWP-D1D1-004-xxM1M1-035	12	4.3	35	3.5	
UPWP-D1D2-004-xxM1M1-035	24			1.7	
UPWP-D1D1-004-xxM1M1-035+FCT	12	4.3	35	3.5	
UPWP-D1D2-004-xxM1M1-035+FCT	24			1.7	
UPWP-D1D1-005-xxM1M1-080	12	5	80	4.8	
UPWP-D1D2-005-xxM1M1-080	24	2.5		2.4	
UPWP-D1D1-006-xxM1M1-060	12	6	60	6	
UPWP-D1D2-006-xxM1M1-060	24	3		3	
UPWP-D1D1-005-xxM1M1-160	12	5.5	160	10.5	
UPWP-D1D2-005-xxM1M1-160	24	2.7		5.25	
UPWP-D1D1-012-xxM1M1-035	12	12.5	35	7	
UPWP-D1D2-012-xxM1M1-035	24	6.25		3.5	
UPWP-D1D1-017-xxM1M1-040	12	17	40	9.2	
UPWP-D1D2-017-xxM1M1-040	24	8.5		4.6	

Utility Pumps

Macerator Pumps

UPS Part Number	Voltage DC	Flow (L/Min)	Power Draw (A)	Picture
UPWP-M1D1-049-00G5G3-00	12	49.2	10A	
UPWP-M1D2-049-00G5G3-00	24		5A	

Impeller & Gear Pumps

UPS Part Number	Voltage DC	Flow (L/Min)	Head (M)	Power Draw (A)	Type
UPWP-P1D1-030-03	12	30	3M	8A	Impeller
UPWP-P1D2-030-03	24			5A	Pump
UPWP-G1D1-014-03	12	14		6A	Gear
UPWP-G1D2-014-03	24			4A	Pump



Bilge, Sump and Barrel Pumps

DC Powered Pumps



Unplugged Part Number	Flow Rate	Voltage	Current	Head	Outlet Diameter
UPWP-B1D1-035-03SC19	350GPH	12V	1.8A	3M	19MM
UPWP-B1D2-035-03SC19		24V	0.9A		
UPWP-B1D1-050-03SC19	500GPH	12V	2.2A	3M	19MM
UPWP-B1D2-050-03SC19		24V	1.1A		
UPWP-B1D1-075-03SC19	750GPH	12V	2.5A	3M	19MM
UPWP-B1D2-075-03SC19		24V	1.25A		
UPWP-B1D1-110-04SC29	1100GPH	12V	3.0A	4M	29MM
UPWP-B1D2-110-04SC29		24V	1.5A		
UPWP-B1D1-150-05SC29	1500GPH	12V	7A	5M	29MM
UPWP-B1D2-150-05SC29		24V	3.5A		
UPWP-B1D1-200-06SC29	2000GPH	12V	8A	6M	29MM
UPWP-B1D2-200-06SC29		24V	4A		
UPWP-B1D1-300-08SC40	3000GPH	12V	10A	8M	40MM
UPWP-B1D2-300-08SC40		24V	5A		
UPWP-B1D1-350-08SC40	3500GPH	12V	12A	8M	40MM
UPWP-B1D2-350-08SC40		24V	6A		
UPWP-B1D1-370-08SC40	3700GPH	12V	16A	8M	40MM
UPWP-B1D2-370-08SC40		24V	8A		
UPWP-B1D1-400-08SC50	4000GPH	12V	17A	8M	50MM
UPWP-B1D2-400-08SC50		24V	8.5A		
UPWP-B1D1-470-08SC50	4700GPH	12V	18A	8M	50MM
UPWP-B1D2-470-08SC50		24V	9A		
UPWP-B2D1-060-03SC19	600GPH	12V	2.5A	3.5M	19MM
UPWP-B2D2-060-03SC19		24V	1.25A		
UPWP-B2D1-075-04SC19	750GPH	12V	3.0A	4.0M	19MM
UPWP-B2D2-075-04SC19		24V	1.5A		
UPWP-B2D1-110-05SC29	1100GPH	12V	3.8A	5.0M	29MM
UPWP-B2D2-110-05SC29		24V	1.9A		

Marine Liquid Level Switch

Part Number UPWP-PA-FS1

Max Voltage: 12V-36V DC
Max Switching Current: 20A
Temperature Rating: -10 / +85 C



Utility Magnetic Level Switch

Part Number UPME-SF1-005-100D

Max Contact Rating: 10W
Max Switching Voltage: 100V DC
Max Switching Current: 0.5A
Max Breakdown Voltage: 220V DC
Max Carry Current: 1A
Temperature Rating: -10 / +85 C
Thread Dia(Approx) 20mm / 0.79"
Thread Length 18mm / 0.7"

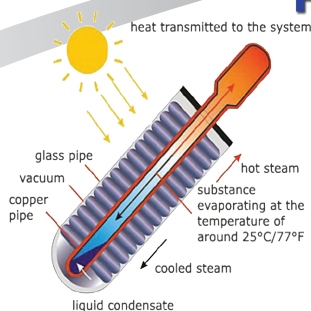
Cable Length 34cm / 13.4"



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Solar Hot Water

How it works!



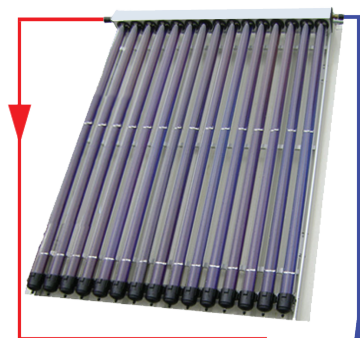
Heat transfer liquid boils from the sun's energy. The heated fluid rises to the top of the tube through convection. This heat is transferred to the glycol in the system as it is pumped through the manifold in the diagram below. The cooled fluid inside the tube condenses and falls to the bottom of the tube to begin the process again.

Solar hot water heating systems typically produce **60%** of the hot water used in the home. The technology works on ultraviolet light so they will work on cloudy days. They will produce hot water even if the outside air temperature is **-40 degrees**.

The diagram explains the process.

Heat from the sun acts on the tubes in the solar array. This heat is transferred to the hot water tank by circulating a glycol (antifreeze) through the array and then through a coil in the hot water tank. A circulation pump moves the glycol that has been cooled in the hot water tank back up to the array to be heated again by the sun.

Each tube in this system has a rated output of 100 Watts with a typical output of 85 Watts to be expected.



SHCMV Tubes and Manifold

Hot Water Output

Electric Auxillary Heater

Cold Water



Heat Transfer Coil in HW Tank



A computerized system controller ensures that your system runs at maximum efficiency and that the glycol is only circulated when the array is warm enough to transfer heat. If no heat is available from the solar array, it will automatically use the electric element to heat your water.



Circulation Pump and Expansion Tank

Control Link



Questions? Call or Email Us Today!

1-877-4-WND-PWR

(1-877-496-3797)

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Solar Tube Arrays



Part Number	Tube Count	BTU/Hour	Absorbing Area
Value Tubes 68.1% Average Efficiency			
UPVT-5818R	1	Replacement Tube	
UPSC22-1810-R	10	2255	1.64m ²
UPSC22-1815-R	15	3382	2.41m ²
UPSC22-1820-R	20	4510	3.18m ²
UPSC22-1825-R	25	5637	3.95m ²
UPSC22-1830-R	30	6763	4.72m ²
Premium Tubes 73.4% Average Efficiency			
UPSH-5818R	1	Replacement Tube	
UPSC37-1810-R	10	2500	1.172m ²
UPSC37-1815-R	15	3758	2.563m ²
UPSC37-1820-R	20	5000	3.377m ²
UPSC37-1825-R	25	6258	4.121m ²
UPSC37-1830-R	30	7517	4.901m ²

Solar Hot Water Tanks

Our hot water tanks are specifically designed for use with solar systems and have fantastic thermal insulation. Tanks are available as enamel or stainless steel with either 1, 2 or no heat exchange coils. Tanks also include a backup electric element to maintain the hot water requirements even when solar energy is not available.



Part Number	Capacity		Heat Exchange Coils	Heating Element
	Liters	Gallons		
Enameled Tank				
UPHW-100LP-1O	100 L	26.4 Gal	1	2.0 Kw
UPHW-150LP-1O	150 L	39.6 Gal	1	2.0 Kw
UPHW-200LP-1O	200 L	52.8 Gal	1	2.0 Kw
UPHW-300LP-1R	300 L	79.2 Gal	1	2.5 Kw
UPHW-400LP-1O	400 L	105.6 Gal	1	3.0 Kw
UPHW-500LP-1O	500 L	132.0 Gal	1	4.0 Kw
UPHW-600LP-1O	600 L	158.5 Gal	1	4.5 Kw
UPHW-100LP-2O	100 L	26.4 Gal	2	2.0 Kw
UPHW-150LP-2O	150 L	39.6 Gal	2	2.0 Kw
UPHW-200LP-2O	200 L	52.8 Gal	2	2.0 Kw
UPHW-300LP-2O	300 L	79.2 Gal	2	2.5 Kw
UPHW-400LP-2O	400 L	105.6 Gal	2	3.0 Kw
UPHW-500LP-2O	500 L	132.0 Gal	2	4.0 Kw
UPHW-600LP-2O	600 L	158.5 Gal	2	4.5 Kw
Stainless Steel Tank				
UPHW-100LP-1R	100 L	26.4 Gal	1	2.0 Kw
UPHW-150LP-1R	150 L	39.6 Gal	1	2.0 Kw
UPHW-200LP-1R	200 L	52.8 Gal	1	2.0 Kw
UPHW-300LP-1R	300 L	79.2 Gal	1	2.5 Kw
UPHW-400LP-1R	400 L	105.6 Gal	1	3.0 Kw
UPHW-500LP-1R	500 L	132.0 Gal	1	4.0 Kw
UPHW-600LP-1R	600 L	158.5 Gal	1	4.5 Kw
UPHW-100LP-2R	100 L	26.4 Gal	2	2.0 Kw
UPHW-150LP-2R	150 L	39.6 Gal	2	2.0 Kw
UPHW-200LP-2R	200 L	52.8 Gal	2	2.0 Kw
UPHW-300LP-2R	300 L	79.2 Gal	2	2.5 Kw
UPHW-400LP-2R	400 L	105.6 Gal	2	3.0 Kw
UPHW-500LP-2R	500 L	132.0 Gal	2	4.0 Kw
UPHW-600LP-2R	600 L	158.5 Gal	2	4.5 Kw

Solar Expansion Tanks

Nitrogen filled expansion tanks available in BSP (International parallel thread) or NPT (North American tapered thread). Suitable for SDHW, heating, or cold water pressure applications.

Part Number	Capacity	
	Liters	Gallons
UPPT-05-xx	5	1.32
UPPT-12-xx	12	3.17
UPPT-18-xx	18	4.75
UPPT-24-xx	24	6.34



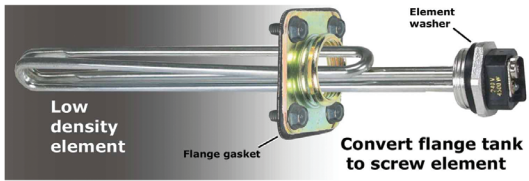
Heater Adapter Flange



Convert flange tank to screw element

Adapter flange to convert standard 4 bolt flanged hot water heater to 1-1/4" round heater element.

Part Number: UPDHW-01



Heater Elements



Part Number	Power Rating	Voltage
UPDHW-02-AD1	200W	12VDC
UPDHW-03-AD1	300W	
UPDHW-02-AD2	200W	
UPDHW-03-AD2	300W	24VDC
UPDHW-10-AD2	1000W	
UPDHW-20-AD2	2000W	
UPDHW-10-AD3	1000W	48VDC
UPDHW-20-AD3	2000W	
UPDHW-15-AA1	1500W	120VAC
UPDHW-15-AA2	1500W	
UPDHW-30-AA2	3000W	240VAC
UPDHW-45-AA2	4500W	

SDHW Motorized Valves

Electrically actuated valves for control of additional glycol zones such as pool heat exchangers or radiators for heat dissipation. Actuator has manual override. Valves can be fully powered (Part number + P) or spring return (Part number + S).













	Valve Type	Part Number	Pipe Size	Pipe Type	Voltage
	2 Way	UPSDHW-MV-215-A1	1/2"	DN15	230vac
		UPSDHW-MV-220-A1	3/4"	DN20	230vac
		UPSDHW-MV-225-A1	1"	DN25	230vac
	2 Way	UPSDHW-MV-215-A2	1/2"	DN15	24VAC
		UPSDHW-MV-220-A2	3/4"	DN20	24VAC
		UPSDHW-MV-225-A2	1"	DN25	24VAC
	3 Way	UPSDHW-MV-315-A1	1/2"	DN15	230vac
		UPSDHW-MV-320-A1	3/4"	DN20	230vac
		UPSDHW-MV-325-A1	1"	DN25	230vac
	3 Way	UPSDHW-MV-315-A2	1/2"	DN15	24VAC
		UPSDHW-MV-320-A2	3/4"	DN20	24VAC
		UPSDHW-MV-325-A2	1"	DN25	24VAC

3 Speed Circulation Pumps *wilo* GRUNDFOS

	Part Number	Brand	Connection Type	Class	Voltage
	GPD20-6SK	House	Threaded Cast Base	H	230vac
	SDT-RS15/6	Wilo	Threaded Extended Base	F	115/230VAC
	SDT-RS25/6	Wilo	Threaded Cast Base	F	115/230VAC
	SDT-RS25/8	Wilo	Threaded Cast Base	F	115/230VAC
	UPS15-58FC	Grundfos	Cast flange with threaded adapters and check valve	F	115VAC

Solar Hot Water Fittings

Unplugged Power Systems carries a wide range of solar hot water fittings. Typically solar hot water piping conforms to European thread standards (BSP) and in North America threads tend to conform to NPT type threads. We carry all standard BSP fittings as well as adapters to convert to local pipe threads.

Part Number	Product description	Picture
Connection kit including Brass nut, washer and Stainless Steel Cir-clip Rated for 350 °C		
UPSDHW-BF00001	1/2" - DN12	
UPSDHW-BF00002	3/4" - DN16	
UPSDHW-BF00003	1" - DN20	
UPSDHW-BF00013	1 1/4" - DN20	
Leather washer only – 5 pack		
UPSDHW-BF00010	1/2" - DN12	
UPSDHW-BF00011	3/4" - DN16	
UPSDHW-BF00012	1" - DN20	
UPSDHW-BF00016	1 1/4" - DN20	
Stainless steel clips only – 5 pack		
UPSDHW-BF00007	1/2" - DN12	
UPSDHW-BF00008	3/4" - DN16	
UPSDHW-BF00009	1" - DN20	
UPSDHW-BF00015	1 1/4" - DN20	
Coupler BSP – M-M		
UPSDHW-BF10001	1/2" - DN12	
UPSDHW-BF10002	3/4" - DN16	
UPSDHW-BF10003	1" - DN20	
UPSDHW-BF10004	1 1/4" - DN25	
Coupler BSP – F-F		
UPSDHW-BF10005	1/2" - DN12	
UPSDHW-BF10006	3/4" - DN16	
UPSDHW-BF10007	1" - DN20	
UPSDHW-BF10008	1 1/4" - DN25	
Adapters		
UPSDHW-BF10009	DN16 to DN12 (male 3/4" - male 1/2")	
UPSDHW-BF10010	DN20 to DN16 (male 1" - male 3/4")	
UPSDHW-BF10011	Reducing Connector BSP DN16 to DN12 (3/4" - 1/2")	
UPSDHW-BF10012	Reducing Connector BSP DN16 to DN12 (1" - 3/4")	
Compression Adapters		
UPSDHW-BF20001	Compression fitting DN12/ (1/2" - 22mm)	
UPSDHW-BF20002	DN16/ (3/4" - 22mm)	
UPSDHW-BF20003	DN20/ (1" - 22mm)	
UPSDHW-BF20004	1/2" DN12 BSP to 22mm Elbow compression	
UPSDHW-BF20005	3/4" DN16 BSP to 22mm Elbow compression	
UPSDHW-BF20006	1" DN22 BSP to 22mm Elbow compression	
UPSDHW-BF20007	22mm Compression fitting for connection between solar collectors	
Brass Tee Fittings		
UPSDHW-BF30001	DN12 BSP 1/2"	
UPSDHW-BF30002	1/2" M - 1/2" M - 1/2" M	
UPSDHW-BF30003	DN16 BSP 3/4"	
UPSDHW-BF30004	3/4" M - 3/4" M - 3/4" M	
UPSDHW-BF30005	DN20 BSP 1" M	
UPSDHW-BF30006	1" M - 1" M	
UPSDHW-BF30007	DN12 BSP 1/2" F	
UPSDHW-BF30008	1/2" - 1/2" F - 1/2" F	
UPSDHW-BF30009	DN16 BSP 3/4" F	
UPSDHW-BF30010	3/4" F - 3/4" F - 3/4" F	
UPSDHW-BF30011	DN20 BSP 1" F	
UPSDHW-BF30012	1" F - 1" F - 1" F	
Brass Tee Valve		
UPSDHW-BF40001	DN12 BSP (1/2")	
UPSDHW-BF40002	DN16 BSP (3/4")	
Check Valve		
UPSDHW-BF40003	DN12 BSP 1/2" male to 1/2" female	
UPSDHW-BF40004	DN16 BSP 3/4" male to 3/4" female	

BSP (European) to NPT (North American) Thread Adapter		
Part Number	Product description	Picture
UPSDHW-BF10013	DN12-1/2" BSP to 1/2" NPT Male Fitting	
UPSDHW-BF10014	DN16-3/4" BSP to 3/4" NPT Male Fitting	
UPSDHW-BF10015	DN20-1" BSP to 1" NPT Male Fitting	
UPSDHW-BF10016	DN25-1 1/4" BSP to 1 1/4" NPT Male Fitting	
UPSDHW-BF10017	DN12-1/2" BSP to 1/2" NPT Female Fitting	
UPSDHW-BF10018	DN16-3/4" BSP to 3/4" NPT Female Fitting	
UPSDHW-BF10019	DN20-1" BSP to 1" NPT Female Fitting	
UPSDHW-BF10020	DN25-1 1/4" BDP to 1 1/4" NPT Female Fitting	

Pipe Hangers		
Part Number	Product description	Picture
UPSDHW-BF50001	Dual Threaded Anchor	
UPSDHW-BF50002	Hollow Wall Anchor	
UPSDHW-BF50003	Single Pipe Hanger	
UPSDHW-BF50004	Dual Pipe Hanger	

Anti-Scalding Valves		
Part Number	Product description	Picture
UPSDHW-BF40005	DN12 BSP 1/2" male	
UPSDHW-BF40006	DN16 BSP 3/4" male	





Cash Acme Thermostatic Mixing Valve Model 110		
UPSDHW-BF40005	NPT 3/4" male	
UPSDHW-BF40006	NPT 1" male	

Titanium Heat Exchangers		
General Specifications: Temperature Rating: 206°C Pressure Rating: 190 PSI Standard Orifices: 1-1/2" and 2" Custom sizes upon request		
Part Number	Product description	
UPSDHW-SP55	55,000 Btu/Hr	
UPSDHW-SP85	85,000 Btu/Hr	
UPSDHW-SP155	155,000 Btu/Hr	
UPSDHW-SP210	210,000 Btu/Hr	
UPSDHW-SP300	300,000 Btu/Hr	
UPSDHW-SP600	600,000 Btu/Hr	
UPSDHW-SP1200	1,200,000 Btu/Hr	
UPSDHW-SP2400	2,400,000 Btu/Hr	
UPSDHW-SP3000	3,000,000 Btu/Hr	

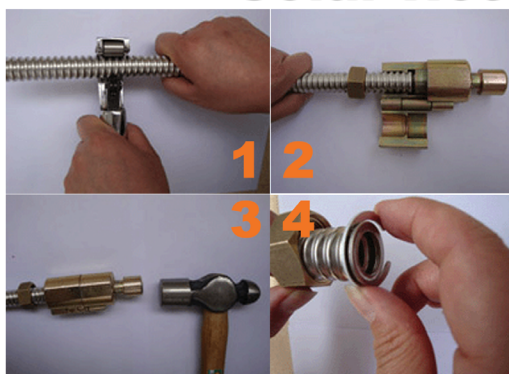
Heater Control Relay		
Relay for use with SDHW controllers that need to trigger heater elements larger than the controller is rated for by itself. Contacts rated 25A Maximum @ 240V		
Part Number	Coil Voltage	
UPSDHW-SR802-012	9-13 VDC	
UPSDHW-SR802-120	90-132 VAC	
UPSDHW-SR802-240	180-264 VAC	






Solar Hot Water Controllers

	Part Number	Description	Thermal Sensors	Control Outputs	Maximum Heating Element (Without Relay)	Voltage
	UPHWC-SR609C	Hot water tank heater controller (No pump controller)	1	Heaters – 1	2,000 Watts	120 or 240vac
	UPHWC-SR868C8	Single Tank Control Freeze protection Holiday/Away functions Swimming Pool Control	3	Pumps – 2 Relays – 1 Heaters – 1	1,500 Watts	120 or 240vac
	UPHWC-SR1568	Multiple Tank Control Swimming Pool Control Datalogging to SD memory card Internet accessible	7	Pumps – 4 Relays – 2 Heaters – 1	1,500 Watts	120 to 240vac
	UPHWC-SR881-W-S	Solar work station including: SR881 Controller Filling Valve Set Pressure Relief Valve Temperature and Pressure Gauges	3	Pumps – 1 Relays – 1 Heaters – 1	1,500 Watts	120 or 240VAC or 24VDC

Solar Hot Water Tools

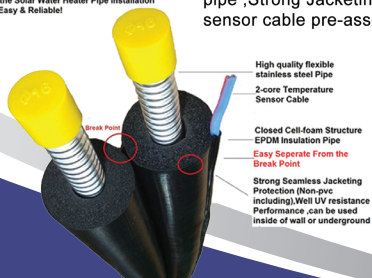




	Part Number	Description
	UPSDHW-T0001	High quality tubing cutter suitable for copper and light stainless steel tubing
Pipe Flange Tools		
	UPSDHW-T0002	DN12 1/2"
	UPSDHW-T0003	DN16 3/4"
	UPSDHW-T0004	DN20 1"
	UPSDHW-T0005	DN22 1 1/4"
Flange tool with built-in Hammer		
	UPSDHW-T0006	DN12 1/2"
	UPSDHW-T0007	DN16 3/4"
	UPSDHW-T0008	DN20 1"
	UPSDHW-T0009	DN22 1 1/4"

Solar Hot Water Insulated Pipe

Pre-insulated flexible stainless steel Solar Hose with high temperature EPDM insulation pipe, Strong Jacketing protection against bird damage and UV. 2-core temperature sensor cable pre-assembled, it is an ideal choice for your solar thermal system.

Make the Solar Water Heater Pipe Installation Fast, Easy & Reliable!



	Part Number	Description
	UPSDHW-P0001	Single Tube DN12 1/2"
	UPSDHW-P0002	Single Tube DN16 3/4"
	UPSDHW-P0003	Single Tube DN20 1"
	UPSDHW-P0004	Single Tube DN22 1 1/4"
	UPSDHW-P0005	Twin Tube DN12 1/2"
	UPSDHW-P0006	Twin Tube DN16 3/4"
	UPSDHW-P0007	Twin Tube DN20 1"
	UPSDHW-P0008	Twin Tube DN22 1 1/4"



SDHW AutoVent Air Valves

Designed to be placed at the high points in your glycol loop, these vents will automatically release air from the glycol loop while you are filling and pressurizing your system, automatically closing when the liquid reaches them. When you drain the system, the valve will open allowing air into the loop and prevent vacuum lock. Available in brass or Stainless Steel.

Part Number	Description	Pipe Size
UPSDHW-AV112N	Low Profile Stainless	1/2" NPT
UPSDHW-AV212N	Standard Brass	1/2" NPT
UPSDHW-AV134N	Standard Brass	3/4" NPT



Propylene Glycol Heat Transfer Fluid

Food grade antifreeze products available in 4L, 18L or 200L containers. Available as both ready to use and concentrated versions for freeze protection down to -51.1°C.



Part Number	Description	Weight (kg)
UPHTF-TLQ004	ThermoLiquatix 4L Premix	4.2
UPHTF-TLQ010	ThermoLiquatix 10L Premix	10.3
UPHTF-TLQ200	ThermoLiquatix 200L Premix	205
UPHTF-CFC020	Chemfrost Concentrate 20L	22.9
UPHTF-CFC205	Chemfrost Concentrate 205L	221
UPHTF-CFC999	Chemfrost Concentrate 1000L	1060

		% Concentration to protect against	
Temperature °C	°F	Freezing	Burst
-7	20	18	12
-12	10	29	20
-18	0	36	24
-23	-10	42	28
-29	-20	46	30
-34	-30	50	33
-40		54	35
-46	-50	57	35
-51	-60	60	35

Our house branded glycol is based on the proven DOWFROST HTF technology. It is a food safe product that provides superior heat transfer and exceptional service life while incorporates a corrosion inhibitor to extend the life of circulation pumps.

Solar Domestic Hot Water Maintenance Products

Flushing and Cleaning Solution

When commissioning a new solar system or replacing glycol, it is important to clean and flush the circulation system.

To properly clean the piping system, a solution of trisodium phosphate (TSP) and distilled water is typically used.

We offer TSP in single residential application containers as well as larger containers for larger jobs.

TSP also makes a great cleaner and degreaser for a number of household and shop applications.

Part Number	Weight
UPHW-TSP-0100	100mg
UPHW-TSP-0400	400 mg
UPHW-TSP-1000	1000 mg



Distilled Water

No matter how good your tap water tastes, it should never be used in a solar system. Only distilled, mineral free water should be used so that circulation pumps and equipment are not subjected to mineral buildup and subsequent premature failure.

Distilled water is available in 4L and 10L containers.



Tap water contains minerals that can be harmful to your circulation pumps.



Unplugged Power Systems
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Types of Power Systems

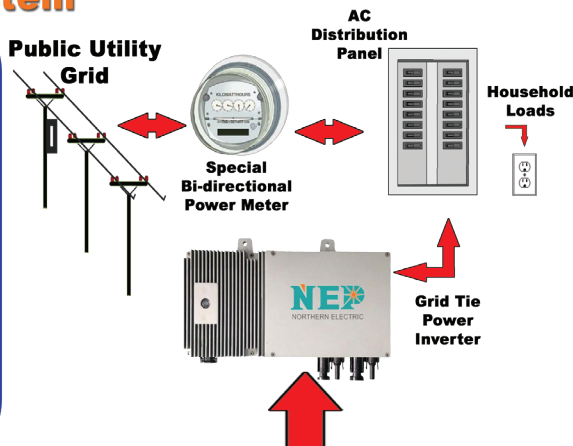
Grid Tied Power System

How It Works

In this system, a renewable energy source such as a wind turbine and/or a solar array is used to feed the public utility power grid to offset part or all of the power bill.

The heart of this system is the grid tie power inverter. It is similar to other inverters in that it converts the direct current (DC) from the alternative energy devices to alternating current (AC) that is usable in the home. The key difference is that it is not capable of creating its own sine wave to make power. It relies on the sine wave from the power grid to use as a reference.

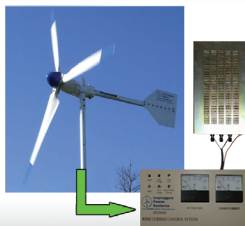
This means that if the local utility power is out, then the inverter does not supply power to the grid and the home is also without power. This is an important safety feature to ensure that electricians working on the power lines do not encounter unexpected line voltage.



Alternative energy systems are the basis of both off grid and grid tied systems.

These can include wind turbines, solar panels, micro hydro generators, gasification, tidal power or bio gas systems.

Wind Turbine, Controller and Dump Load



Solar Array and Charge Controller



Off Grid Power System

How It Works

In the system pictured, the renewable energy sources are used to charge a battery bank with Direct Current (DC).

The battery bank provides power for a power inverter to convert the DC power into AC (Alternating Current) to use common household appliances.

The optional gasoline or diesel generator can be included to provide a backup so that the home will not be without power in the case of higher than normal power consumption or sustained conditions of little sun or wind to charge the batteries.

The gasoline generator can also be directly connected to some inverters to charge the batteries through the inverter while also powering the home.

This battery bank consists of six 12 Volt 100 Amp Hour deep cycle batteries. They are configured as three strings of two making 24 Volts, 100 Amp Hours per string. The total capacity is 24V 300Ah.

Optional Backup Generator



AC Distribution Panel

Household Loads





Solar Panels

Mono and Poly Crystalline

Both mono & polycrystalline solar panels are available. With recent advancements in solar technology the price difference and power output have become very similar.

Our skilled technicians can suggest the correct solar array size for your boat, RV, camp or off-grid home.

Various brands are available

Call for current selections

CanadianSolar **HES** PV

Solar Charge Controllers

MPPT and PWM charge controllers provide battery protection for over and under voltage as well as charge status indication. Some controllers are available with automatic switching to provide timed output or dusk to dawn switching functions.

PWM Controllers



Pulse width modulation technology provides entry level charging with the standard safety features of higher priced systems. These value priced controllers are great for RV, Marine, or small power system use.

MPPT Controllers

Multi-Power point tracking technology offers superior utilization of solar energy providing 30% more power to the battery bank than conventional PWM style charge controllers.



UPS Part Number	Rated Output	Battery Voltage	Description	
UPPV-A010-AA22	10A	12/24V	Basic PWM Controller with programmable output switching	
UPPV-A020-AA22	20A			
UPPV-A030-AA22	30A			
UPPV-A040-AA22	40A			
UPPV-A010-AB22	10A	12/24V 48V	LCD Display PWM Controller with programmable output switching and integrated USB Charger	
UPPV-A020-AB22	20A			
UPPV-A030-AB22	30A			
UPPV-A040-AB22	40A			
UPPV-A060-AB22	60A	12/24V	Waterproof PWM Controller with programmable output switching	
UPPV-A010-OB65	10A			
UPPV-A020-OB65	20A			
UPPV-A030-OB65	30A			
UPPV-A040-OB65	40A	12/24V 48V 96V	CAP Brand LM Series MPPT Charge Controller	
UPPV-B030-AA22	30A			
UPPV-B040-AA22	40A			
UPPV-B060-AA22	60A			
UPPV-B080-AA22	80A	12/24V 48V 96V	MPPT Charge Controller with data monitoring and logging	
UPPV-C040-AA22	40A			
UPPV-C060-AA22	60A			
UPPV-C080-AA22	80A			



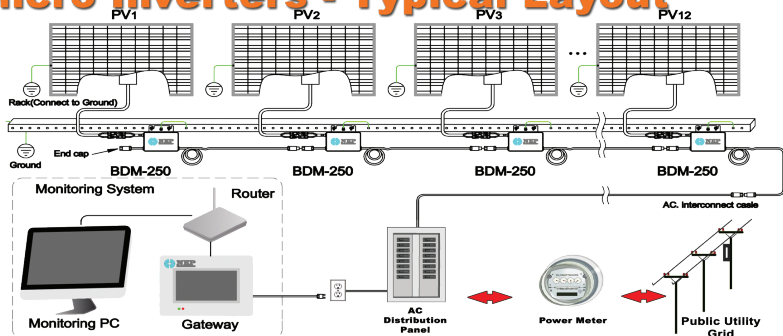
Grid-Tied Power Inverters

General Information

It is technically possible to connect a special type of power inverter to the public utility grid. This is done in most cases to use an alternative energy device as a point of supply for the power grid when the power is not being used locally. To put this in simple terms, in a residential installation, the house remains connected to the electrical grid but the homeowner installs solar panels to offset their electrical consumption. This will, in effect, 'sell back' power to the electrical company. In many countries, solar panels come equipped with micro-inverters that can be plugged in directly to the wall receptacles. Other areas require these units to be wired in permanently and inspections be performed. The degrees to which this is allowed differ from province to province and they are beyond the scope of this description.

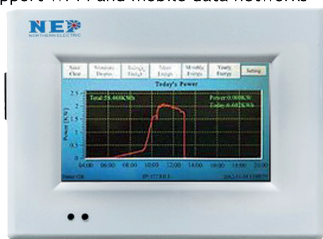
Technically, the grid-tie inverter cannot make power on its own. When connected to the electrical grid it must 'see' the sine wave from the power company in order to mimic it. This allows it to exactly match the power being produced by the electric utility so that the phase matches correctly. This also ensures that if the electrical grid goes down, the inverter does not put power out to the grid that could potentially be fatal to electricians working on downed power lines.

Micro Inverters - Typical Layout



NEP Inverter Monitoring System

Touch screen for user friendly interface provides instant readings on each individual inverters for trouble shooting and local monitoring without internet service. Supports USB interfaced bar code scanners for quick installation of inverters. Support Wi-Fi and mobile data networks

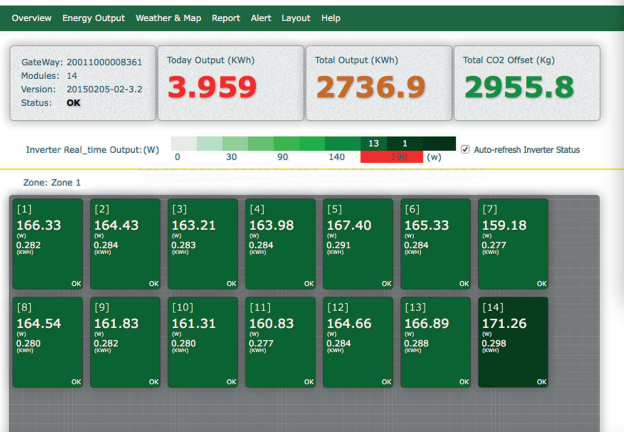


LCD touch screen display
Monitoring up to 255 inverters
Access data remotely via internet
Communicates via house circuitry
Ethernet & USB 2.0 connections
Dimensions 170 x 110 x 37mm
Weight (g) 150

Web Interface Example



Finishe Cafe Dumaguete Airport: 3.5kW
Negros Island Philippines
77°F / 25°C Partly Cloudy
Localtime: 2015-03-06 09:37:39



Internal controller web interface for system monitoring, configuration and remote access.

Gateway is accessible via optional wireless adapter to facilitate connection to smart phones, computers or internet monitoring.



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NEP Micro Inverters







Specification	BDM-250	BDM-300	BDM-300 X2
Input (DC)			
Max Recommended PV Power (Wp)	285	300	330 x 2
Max DC Open Circuit Voltage (Vdc)		60	
Max DC Input Current (Adc)		12	
MPPT Tracking Accuracy		>99.5%	
MPPT Tracking Range (Vdc)		22-55	
Isc PV (Absolute Maximum) (Adc)		14	
Maximum Inverter Backfeed Current to the Array (Adc)		0	
Output (AC)			
Rated AC Output Power (Wp)	220	250	500
Nominal Power Grid Voltage (Vac)		240	
Allowable Power Grid Voltage (Vac)		211-264	
Allowable Power Grid Frequency (Hz)		59.3-60.5	
Total Harmonic Distortion		<3% (At rated power)	
Power Factor (cos phi, fixed)		<0.99%	
Current (Maximum Continuous) (Aac)	1.2	1.4	2.08
Current (Inrush) (Peak and Duration)		12A, 15µs	
Nominal Frequency (Hz)		60	
Maximum Output Fault Current (Aac)		2.2A peak	
Maximum Output Overcurrent Protection (Aac)		6.3	
Maximum Number of Units Per 15A/20A Branch	/15	/17	07/05/17
System Efficiency			
Peak Efficiency		96.30%	
CEC Efficiency		95.50%	
Protection Functions			
Night Time Tare Loss (Wp)	0.17	0.08	0.11
Over/Under Voltage Protection		Yes	
Over/Under Frequency Protection		Yes	
Anti-Islanding Protection		Yes	
Over Current Protection		Yes	
Reverse DC Polarity Protection		Yes	
Overload Protection		Yes	
Ingress Protection Rating		NEMA-6 / IP-67	
Environment Temperature		-40°C to 65°C	
Environment Humidity		100% Condensing	
Display		Power LED Light	
Communications		Power Line Networking	
Dimension (D-W-H mm)	230*138*35	180*186*25	277*132*50
Weight (Kg)	2	1.5	2.9
Other Parameters			
Environment Category		Indoor or Outdoor	
Wet Location		Suitable	
Pollution Degree		PD 3 Rated	
Maximum Altitude		2000M ASL	
Overvoltage Category		II (PV), III (AC Mains)	
		California Rule 21 Certified	
		UL 1741	
		CSA C22.2 No. 170.1	
		IEEE 5047	
Product Safety Compliance			
Grid Code Compliance			


BDM-250

BDM-300

BDM-300 X2


Micro Inverter Accessories

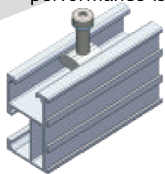
Part Number	Description	
UPSGT-BDAC-01	5 meters (16 feet) AC cable w/ female connector-12AWG	
UPSGT-BDAC-02	Extension AC cable 5m with male connector and female connector	
UPSGT-BDC-01	Weiland Male Connector	
UPSGT-BDC-02	Weiland Female Connector	
UPSGT-BDAE-01	End Cap for Female Connector	
UPSGT-BDAE02	End Cap for Male Connector	



Solar Equipment Mounting System

Aluminum solar mounting system designed for use on flat or pitched roof, pole mount, or ground installations. With aluminum racks, the material matches the solar panel frame material and therefore the cold weather performance is much better than steel because expansion will not cause the mounts to loosen over time.

All aluminum material conforms to ISO A1SiMg 6005-T5

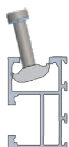


Anchor Assembly

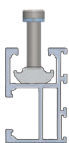
4 Easy Steps!



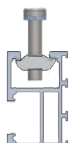
Insert



Tilt



Seat



Anchor

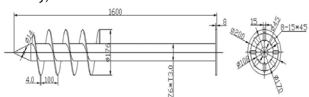
Part Number	Description	Height (mm)	
UPSRM-R04-4400	Mounting Rail Section	4400	
UPSRM-R04-SP	Rail Splice Kit	200	
UPSRM-TIM-25	Anchor Only	25	
UPSRM-IC-40W	Middle Clamp Only	40	
UPSRM-IC-F31A	Middle Clamp Kit Including Anchor and Screw	31	
UPSRM-IC-F35A		35	
UPSRM-IC-F40A		40	
UPSRM-IC-F45A		45	
UPSRM-IC-F50A		50	
UPSRM-EC-F3-31A1	End Clamp Only	31	
UPSRM-EC-F3-35A1		35	
UPSRM-EC-F3-40A1		40	
UPSRM-EC-F3-45A1		45	
UPSRM-EC-F3-50A1		50	
UPSRM-EC-F3-31A	End Clamp Kit Including Anchor and Screw	31	
UPSRM-EC-F3-35A		35	
UPSRM-EC-F3-40A		40	
UPSRM-EC-F3-45A		45	
UPSRM-EC-F3-50A		50	
UPSRM-FH-01	Aluminum Anchor and Asphalt Roof Flashing Hook	200	
UPSRM-SSH-04	Stainless Steel Tile Roof Hook	200	
UPSRM-CW-01A	Tin Roof Mount L-Base Kit	84	
UPSRM-CW02A	Tin Roof Mount T-Base	84	
UPSRM-AD-FL	Front Leg Pivot Mount		
UPSRM-AD-RL15-30	Adjustable 15°/30° Rear Leg Adjustable Mount		
UPSRM-GL	Grounding Wire Connection Kit		
UPSRM-B-BJ	Bonding Jumper Kit		
UPSRM-HEX01	Allen Key		



Ground Screws



With large spiral blades, this type of ground screw is engineered for installation in sandy, unstable soil.



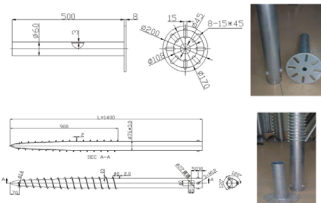
Ground screws are a quick and easy way to install ground mounted solar systems, fences, or lighting poles. Installed with a post hole digger and options for sandy or hard soil are available. Made from hot-galvanized Q235 steel for superior corrosion resistance.

Part Number	Length (mm)	Diameter (mm)	Holding Strength
Ground Screw for Sandy Soil			
UPGS-AF76-1200	1200	76	
UPGS-AF76-1500	1500	76	
UPGS-AF76-1600	1600	76	
UPGS-AF76-1800	1800	76	
UPGS-AF76-2000	2000	76	
Ground Screw for Hard packed soil			
UPGS-BF76-1200	1200	76	
UPGS-BF76-1500	1500	76	
UPGS-BF76-1600	1600	76	
UPGS-BF76-1800	1800	76	
UPGS-BF76-2000	2000	76	
Hard packed soil with adjustable height			
UPGS-CF76-1200	1200	76	
UPGS-CF76-1500	1500	76	
UPGS-CF76-1600	1600	76	
UPGS-CF76-1800	1800	76	
UPGS-CF76-2000	2000	76	
Flange Top for Adjustable Height			
UPGS-CF80-0500	500	80	



UPGS-CF76

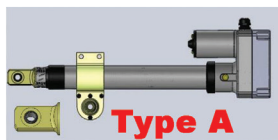
General purpose ground screws are available in standard and adjustable height (With pole flange)



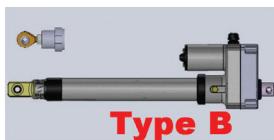
Linear Actuators

Linear actuators made from high quality steel and designed for long service life. Actuator nut and screw are made from brass, not nylon, ensuring better wear and load characteristics. Position sensor types available: Reed (Standard), Linear Potentiometer, or Optical.

Actuators can be used for solar system positioning, door or gate closers, or a multitude of automotive uses.



Type A



Type B

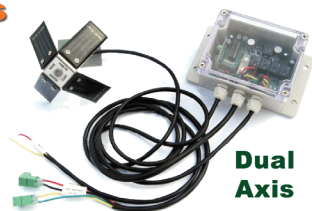
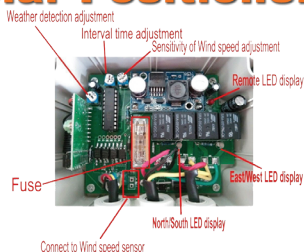


Part Number	Stroke	Voltage	Pounds			Newtons			Position Sensor
			Load Capacity	Static Load	Dynamic Load	Load Capacity	Static Load	Dynamic Load	
UPLA-1212-Axx	12	12	337.2	1348.8	629.5	1,500	6,000	2,800	Reed Switch
UPLA-2412-Axx	24	12							
UPLA-1224-Axx	12	24							
UPLA-2424-Axx	24	24	337.2	1348.8	629.5	4,500	7,000	15,000	Reed Switch
UPLA-1212-Bxx	12	12							
UPLA-2412-Bxx	24	12							
UPLA-1224-Bxx	12	24	337.2	1348.8	629.5	4,500	7,000	15,000	Reed Switch
UPLA-2424-Axx	24	24							

Solar Positioners

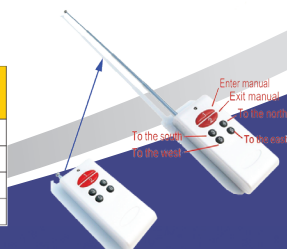


Single Axis



Dual Axis

Part Number	Description
UPSP-1A	Single axis solar positioner
UPSP-2A	Dual axis solar positioner
UPSP-1AR	Single axis solar positioner with remote
UPSP-2AR	Dual axis solar positioner with remote



UV Stable Solar PV Wire Bulk or pre-cut lengths

Premium UV stabilized high performance cable is designed to withstand damaging solar rays for 25 years or more. Available in full rolls, bulk per foot, or in pre-made lengths with MC4 connectors installed.

When purchasing cable, always keep the length between your panels and charge controller as short as possible to maximize efficiency.



UPS Part Number	Description	Length	
		Meters	Feet
12 Gauge Single			
UPCBL-PV12-001BMM	Extension Cable MC4 M-F	1	3.3
UPCBL-PV12-003BMM	Extension Cable MC4 M-F	3	9.8
UPCBL-PV12-005BMM	Extension Cable MC4 M-F	5	16.4
UPCBL-PV12-010BMM	Extension Cable MC4 M-F	10	32.8
UPCBL-PV12-015BMM	Extension Cable MC4 M-F	15	49.2
UPCBL-PV12-999BMM	Full Roll – No termination	0	0.0
12 Gauge Dual (Red + Black)			
UPCBL-PV12-001DMM	Extension Cable MC4 M-F	1	3.3
UPCBL-PV12-003DMM	Extension Cable MC4 M-F	3	9.8
UPCBL-PV12-005DMM	Extension Cable MC4 M-F	5	16.4
UPCBL-PV12-010DMM	Extension Cable MC4 M-F	10	32.8
UPCBL-PV12-015DMM	Extension Cable MC4 M-F	15	49.2
UPCBL-PV12-999DMM	Full Roll – No termination	0	0.0
12 Gauge Single			
UPCBL-PV10-001BMM	Extension Cable MC4 M-F	1	3.3
UPCBL-PV10-003BMM	Extension Cable MC4 M-F	3	9.8
UPCBL-PV10-005BMM	Extension Cable MC4 M-F	5	16.4
UPCBL-PV10-010BMM	Extension Cable MC4 M-F	10	32.8
UPCBL-PV10-015BMM	Extension Cable MC4 M-F	15	49.2
UPCBL-PV10-999BMM	Full Roll – No termination	0	0.0
10 Gauge Dual (Red + Black)			
UPCBL-PV10-001DMM	Extension Cable MC4 M-F	1	3.3
UPCBL-PV10-003DMM	Extension Cable MC4 M-F	3	9.8
UPCBL-PV10-005DMM	Extension Cable MC4 M-F	5	16.4
UPCBL-PV10-010DMM	Extension Cable MC4 M-F	10	32.8
UPCBL-PV10-015DMM	Extension Cable MC4 M-F	15	49.2
UPCBL-PV10-999DMM	Full Roll – No termination	0	0.0

Solar Connectors

MC4 Connector

Exploded View



2 and 3 Way Branch Connectors



Wire Type Branch Connectors



Part Number	Description	Specifications
UPCON-MC4C-PR-0001	MC4 30A Crimp Connector (1 Pair)	Rated Voltage: 1000VDC Wire Size: 2.5-8.0mm ² AWG 14/12/10 Temperature Range: -40 to +90°C Flame Class: UL90-V0 Certification: TÜV
UPCON-MC4C-PR-0005	MC4 30A Crimp Connector (5 Pair)	
UPCON-MC4C-PR-0025	MC4 30A Crimp Connector (25 Pair)	
UPCON-MH4K-PR-0001	MC4 40A Crimp or Solder Connector (1 Pair)	
UPCON-MH4K-PR-0005	MC4 40A Crimp or Solder Connector (5 Pair)	
UPCON-MH4K-PR-0025	MC4 40A Crimp or Solder Connector (25 Pair)	
UPCON-MC4Y-PR-0001	MC4 Y Connector	
UPCON-MC43-PR-0001	MC4 3-Way Branch Connector	
UPCON-MC44-PR-0001	MC4 4-Way Branch Connector	
UPCON-MC4Y-PW-0001	MC4 Y Wire Connector	
UPCON-MC43-PW-0001	MC4 3-Way Wire Connector	
UPCON-MC44-PW-0001	MC4 4-Way Wire Connector	
UPCON-MC4F-40A1	MC4 Fuse Holder up to 30A	



Inline Fuse Holder

Solar Tools

MC3/MC4 Connection Tools

Simple and cost effective tools designed to tighten waterproof seals on crimped connections as well as release connectors that have been previously secured.

MC3/MC4 Style Crimp Tools

Solid steel top quality crimp tools designed to make secure connections in MC3 or MC4 style connectors.



Solar PV Disconnect Switch



Available with 1/2" threaded ports, watertight connectors, or MC4 connectors.



Solar System Warning Labels

French Versions Also Available

CAUTION SOLAR CIRCUIT DISCONNECT LXT-234-4"x2"	WARNING INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE LXT-235-4"x2"	WARNING PHOTOVOLTAIC POWER SOURCE LXT-235-4"x2"	Solar Disconnect WARNING —Electric Shock Hazard DO NOT TOUCH TERMINALS Terminals on both Line and Load sides may be energized in the Open Position. LXT-234-4"x2"	DC Disconnect WARNING —Electric Shock Hazard DO NOT TOUCH TERMINALS Terminals on both Line and Load sides may be energized in the Open Position. LXT-235-4"x4"	PHOTOVOLTAIC MODULES PRODUCE DC VOLTAGE WHENEVER THEY ARE EXPOSED TO SUNLIGHT LXT-236-4"x2"
ENCLOSURE CONTAINS CONDUCTORS FROM MULTIPLE PV SOURCES LXT-233-4"x2"	THIS ELECTRIC SYSTEM IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM LXT-233-4"x2"	WARNING THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM LXT-232-4"x2"	WARNING —Dual Power Sources Second source is photovoltaic system LXT-236-4"x6"x2"	WARNING —Electric Shock Hazard No user serviceable parts inside Contact authorized service for assistance LXT-233-4"x6"x2"	DANGER! ARC FLASH AND SHOCK HAZARD FOLLOW ALL REQUIREMENTS IN NFPA 70E FOR SAFE WORK PRACTICES AND FOR PERSONAL PROTECTIVE EQUIPMENT LXT-231-4"x4"
WARNING TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL LXT-233-4"x2"	DO NOT OPEN UNDER LOAD LXT-234-4"x2"	AC COMBINER BOX LXT-238-4"x4"	SOLAR PV BACKED DO NOT RELOCATE LXT-233-4"x6"x2"	PHOTOVOLTAIC SYSTEM COMBINER PANEL DO NOT ADD LOADS LXT-236-4"x2"	CAUTION SOLAR CIRCUIT LXT-231-4"x4"
CAUTION SOLAR POINT OF CONNECTION LXT-234-4"x2"	DO NOT DISCONNECT UNDER LOAD LXT-234-4"x1"	DC COMBINER BOX LXT-232-4"x1"	RATED OPERATING CURRENT: _____ A RATED OPERATING VOLTAGE: _____ V MAXIMUM SYSTEM VOLTAGE: _____ V RATED SHORT CIRCUIT CURRENT: _____ A POLARITY OF GROUNDING CONDUCTOR: _____ V MAXIMUM VOLTAGE: _____ V LXT-234-4"x2"	PHOTOVOLTAIC SYSTEM kWh METER LXT-236-4"x1"	CAUTION SOLAR CIRCUIT LXT-231-4"x4"
PHOTOVOLTAIC SYSTEM DISCONNECT LXT-238-4"x1"	PV SOURCE CIRCUIT LXT-231-4"x1"	DC JUNCTION BOX LXT-236-4"x1"	DO NOT PUT UP SIZE MAIN BREAKER BREAKER WAS DOWNSIZE FOR A SYSTEM CONNECTION LXT-236-4"x1"	Peak Power: _____ Max Power Voltage: _____ Max Power Current: _____ Max Open Circuit Voltage: _____ Short Circuit Current: _____ LXT-239-4"x6"x2"	PHOTOVOLTAIC POWER SOURCE LXT-236-4"x1"
DC DISCONNECT LXT-238-4"x1"	INVERTER INPUT CIRCUIT LXT-239-4"x1"	SOLAR DC DISCONNECT LXT-232-4"x1"	SOLAR AC DISCONNECT LXT-231-4"x1"	MAXIMUM VOLTAGE: _____ MAXIMUM CIRCUIT CURRENT: _____ MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED) _____ LXT-231-4"x2"	CAUTION SOLAR PV SYSTEM MAY REMAIN ENERGIZED AFTER DISCONNECT DURING DAYLIGHT HOURS LXT-235-4"x3"
AC DISCONNECT LXT-232-4"x1"	INVERTER OUTPUT CIRCUIT LXT-229-4"x1"	MAIN SOLAR SYSTEM AC DISCONNECT LXT-238-4"x3"	MAX OPERATING VOLTAGE EQUALIZATION VOLTAGE POLARITY OF GROUNDING CIRCUIT CONDUCTOR _____ LXT-236-4"x1"	WARNING SOLAR ELECTRIC BREAKER IS BACKED LXT-236-4"x1"	WARNING SOLAR ELECTRIC BREAKER IS BACKED LXT-236-4"x1"
SOLAR DISCONNECT LXT-236-4"x1"	DIRECT CURRENT PV POWER SOURCE LXT-232-4"x1"	DO NOT RELOCATE THIS OVERCURRENT DEVICE PHOTOVOLTAIC SOLAR BREAKER LXT-233-2"x6"x2"	CAUTION SOLAR CIRCUIT LXT-234-5"x1"x1.125"	WARNING SINGLE 120-VOLTS SUPPLY DO NOT CONNECT MULTIWIRE BRANCH CIRCUITS LXT-231-4"x2"	PHOTOVOLTAIC POWER SOURCE ONLY NO ADDITIONAL CIRCUITS ALLOWED LXT-232-5"x1"x1.125"
CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED LXT-236-5"x1"x1.125"	PV SYSTEM DISCONNECT FOR UTILITY OPERATION LXT-233-5"x1"x1.125"	WARNING ELECTRIC SHOCK HAZARD IF GROUND FAULT IS INDICATED ALL NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED LXT-232-4"x3"	WARNING ELECTRIC SHOCK HAZARD THE DIRECT CURRENT CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED BUT MAY BE ENERGIZED WITH RESPECT TO GROUND DUE TO LEAKAGE PATHS AND/OR GROUND FAULTS LXT-231-4"x3"	WARNING PHOTOVOLTAIC SYSTEM DC DISCONNECT LXT-236-5"x1"x2"	WARNING PHOTOVOLTAIC POWER SOURCE LXT-236-5"x1"x2"
WARNING ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION LXT-231-4"x3"	WARNING ELECTRIC SHOCK HAZARD THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED LXT-231-4"x3"	WARNING ELECTRIC SHOCK HAZARD THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED LXT-231-4"x3"	CAUTION SOLAR CIRCUIT LXT-234-5"x1"x1.125"	WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION LXT-236-5"x1"x2"	WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION LXT-236-5"x1"x2"
WARNING ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION PHOTOVOLTAIC MODULES PRODUCE DC VOLTAGE WHENEVER THEY ARE EXPOSED TO SUNLIGHT LXT-231-4"x3"	WARNING ELECTRIC SHOCK HAZARD THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED LXT-231-4"x3"	WARNING ELECTRIC SHOCK HAZARD THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED LXT-231-4"x3"	CAUTION SOLAR CIRCUIT LXT-234-5"x1"x1.125"	WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION LXT-236-5"x1"x2"	WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION LXT-236-5"x1"x2"
PHOTOVOLTAIC SYSTEM DC DISCONNECT OPERATING VOLTAGE _____ VDC OPERATING CURRENT _____ AMPS MAX SYSTEM VOLTAGE _____ VDC SHORT CIRCUIT CURRENT _____ AMPS CHARGE CONTROLLER MAX _____ AMPS LXT-231-4"x3"	WARNING DUAL POWER SUPPLY SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM LXT-231-4"x3"	PHOTOVOLTAIC SYSTEM AC DISCONNECT OPERATING VOLTAGE _____ VOLTS OPERATING CURRENT _____ AMPS LXT-231-4"x3"	CAUTION SOLAR CIRCUIT LXT-234-5"x1"x1.125"	WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION LXT-236-5"x1"x2"	WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION LXT-236-5"x1"x2"



Unplugged Power Systems
The Other Power Company.ca

How Wind Turbines Work

General



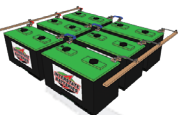
3 Phase AC from Turbine



3 Phase AC to dump loads for speed regulation



DC Output to battery banks



Our wind turbine systems are based on a 3 phase permanent magnet alternator. As the wind turns the blades, a permanent magnet rotates inside the nacelle inducing alternating current in the coils. In this arrangement, friction is greatly reduced and maintenance for these types of turbines is minimal. Turbines typically have a service life of 25 years or more.

The AC power generated is transferred to a turbine controller.

The controller converts the variable AC received from the turbine into stable DC and regulates battery charging. If the battery is fully charged, the controller will divert the generated electricity to a diversion load. These loads are typically wire wound resistors for small turbines and hot water heating elements in water heaters for larger ones.

In a high wind condition, small wind turbines employ tail furling as a measure to regulate the turbine rotational speed. Tail furling keeps the tail in line with the wind but allows aerodynamic pressure on the blades to force the nacelle (generator) at an angle to the relative air flow. If the turbine is in full tail furl and the rotational speed is still too high, the turbine controller will engage an electromagnetic brake.

It is important never to install a 'cut-off' switch between the turbine and controller.

Such a device would make the turbine unsafe because the controller would be unable to monitor and correct for over-speed conditions.

Larger turbines also use hydraulic braking systems that can be used to manually stop the turbine in high wind conditions.



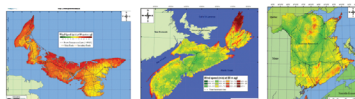
500 Watt Turbine in Tail Furl

Wind Surveys and Site Suitability

The most common question asked is, "Will a wind turbine be a worthwhile investment in my area?". This can sometimes be a complicated question depending on the speed and direction of prevailing winds and local terrain.

In cases where questions arise, our team of assessors can give you the answers you are looking for by assessing the proposed site. Assessment is done by physical inspection, as well as consultation with private and government sanctioned wind atlases. Typically wind atlases will give an overall wind direction and average annual speed, but due to they way their information is gathered, fall short when describing the winds in an exact location. In these cases, it is normally most prudent to perform a wind survey, especially where terrain is a major factor.

Wind surveys are done with a logging anemometer and tower station that is designed to capture wind data over time and determine the exact wind speeds that can be expected in a particular area. The cost of the wind survey is typically refundable against the purchase of a wind turbine, so the investment is not lost. If you wish to purchase a weather logging station, they are also available for purchase.



Wind Turbines - Horizontal

Value Wind Turbines



Value turbines are designed for use on boats, RVs, wind powered street lights, and other applications where DC power is used as it is produced. Typically these turbines are not suitable for off-grid homes.

Unplugged Part Number	Maximum Rated Power	Rated Voltage	Rated Windspeed	Blade Diameter	Startup Wind Speed
UP200B	200W	12 VDC	10.5 m/s	1.2 m	2.5 m/s
UP200C	200W	24 VDC	10.5 m/s	1.2 m	2.5 m/s
UP400B	400W	12 VDC	10.5 m/s	1.2 m	2.5 m/s
UP400C	400W	24 VDC	10.5 m/s	1.2 m	2.5 m/s

Controllers and replacement blades also available

Standard Fixed Pitch Wind Turbines

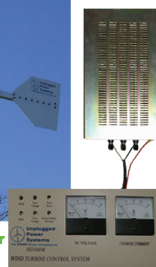
This turbine style is always "Upwind". That is, the blades are always on the side of the tower that is first to be struck by prevailing winds. The tail always keeps the blades facing the correct direction. This style of turbine has a hinged tail section that, in the case of high winds, causes the front of the nacelle to bend out of the wind due to aerodynamic forces on the blades. This action is called "tail furling" and is used to regulate the turbine speed. If the wind speed causes the turbine to exceed a preset RPM while it is furled, the controller will regulate the speed by dumping power across the dump load. This will cause a steep reduction in RPM. As a safety measure, turbines come with an electromagnetic brake that can be manually activated.

Unplugged Part Number	Nominal Rated Power	Rated Windspeed	Maximum Rated Power	Startup Wind Speed	Blade Diameter	Generation Per Year*
UP300A	300 W	9 m/s	460W	3.2 m/s	2.2 m	958 kWh
UP500A	500 W	9 m/s	750W	3.2 m/s	2.5 m	1204 kWh
UP1KA	1000 W	8 m/s	1800W	2.5 m/s	3.2 m	2450 kWh
UP2KA	2000 W	8 m/s	2950W	2.5 m/s	3.5 m	4672 kWh
UP3KA	3000 W	10 m/s	5400W	2.5 m/s	5.0 m	6570 kWh
UP5KA	5000 W	10 m/s	9500W	2.5 m/s	5.0 m	11,315 kWh
UP10KA	10,000 W	10 m/s	13,000W	3.0 m/s	7.0 m	20 MWh
UP20KA	20,000 W	10 m/s	30,000W	3.0 m/s	10 m	98 MWh

* Annual energy production is based on an average hub wind speed of 5 meters per second



Wind Turbine, Controller and Dump Load



Variable Pitch Wind Turbines

For turbines 3kW and larger, variable pitch blade systems are available. These systems use a controller to determine the optimum blade pitch and constantly monitor wind speed to maintain efficiency. RPM is also regulated with blade pitch, ensuring adequate safety in high wind conditions.

Unplugged Part Number	Nominal Rated Power	Rated Windspeed	Maximum Rated Power	Startup Wind Speed	Blade Diameter	Generation Per Year*	Blade Direction
UP3KC	3000 W	8.5 m/s	4000W	2.5 m/s	5.0 M	6900 kWh	Upwind
UP5KC	5000 W	10.5 m/s	5400W	3.0 m/s	5.6 M	11,880 kWh	Downwind
UP10KC	10,000 W	10.8 m/s	12,500W	2.0 m/s	8.0 M	20 MWh	Downwind
UP20KC	20,000 W	9.0 m/s	24 kW	2.0 m/s	12.35 M	50 MWh	Downwind
UP30KC	30,000 W	12 m/s	32 kW	2.5 m/s	12.56 M	70 MWh	Downwind
UP50KC	50,000 W	10 m/s	55 kW	2.5 m/s	18.0 M	110 MWh	Downwind

* Annual energy production is based on an average hub wind speed of 5 meters per second



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Wind Turbines - Vertical

KELSO ENERGY (add logo)



VERTICAL AXIS WIND TURBINES

Unplugged Power Systems is proud to offer a wind turbine alternative to our standard horizontal axis turbine in the form of a premium quality vertical axis turbine from a Canadian manufacturer.

The Kelso Energy VAWT (Vertical Axis Wind Turbine) is extremely durable and will last a long long time as it has no drive shaft or gear box, it also has no brushes, no bushings and no slip rings. The only moving part it has is one sturdy long life bearing which makes this an



General Specifications

- Self Starts at low wind speed
- Produces power where required
- Very low noise
- Low RPM which means nil vibration
- Can take wind from any direction
- Easy to install and maintain
- Durable and reliable
- Poses little danger to wildlife
- No gear box, brushes, or slip rings

Expected Lifespan
15-25 Years
5 year Warranty

Unplugged Part Number	Nominal Rated Power	Rated Windspeed	Maximum Rated Power	Startup Wind Speed	Turbine Diameter	Blade Height	Blade Depth	Turbine Weight
UPAA-2VAWT	2000 W	11 m/s	2000W	3 m/s	210cm	183cm	74cm	358kg
UPAA-5VAWT	5000 W	11 m/s	6100W	3 m/s	236cm	365cm	74cm	468kg



Grid Tie Wind Inverters

Power Inverters designed for use with wind turbines
conforming to
IEC62109-1/-2 AS3100 EN61000-6-1 EN61000-6-3



UPS Part Number	Rated Output Power	Rated AC Grid Voltage	Grid Voltage Range	Max AC Output Current	Max DC Input	MPPT Input Range
Single Phase						
UPGCI-1K-2G-W	1kW	220/230V	180~270V	5.2A	500V	30-400V
UPGCI-1.5K-2G-W	1.5kW			8.1A		
UPGCI-2K-2G-W	2kW			10.5A		
UPGCI-2.5K-2G-W	2.5kW			13.3A		
UPGCI-3K-2G-W	3kw			15.7A	600V	30-500V
UPGCI-3.6K-2G-W	3.6kW			16A		
UPGCI-4K-2G-W	4kW			21A		
UPGCI-4.6K-2G-W	4.6kW			23.8A		
UPGCI-5K-2G-W	5kW			23.8A		
3 Phase						
UPGCI-6K-W	6kW	380V/400V	313~470V	10A	1000V	30-810V
UPGCI-10K-W	10kW			16.7A		
UPGCI-15K-W	15kW			25A		
UPGCI-6K-LV-W	6kW	208V/220V/240V	180~270V	16.7A	600V	30-530V
UPGCI-10K-LV-W	10kW			25A		

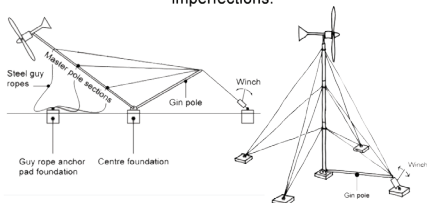


Turbine Tower Systems

Guyed Tower Systems

These towers are available in several grades and materials from standard Q235 carbon steel (ASTM A36) to stainless steel grade 316 steel.

Towers can be purchased with minor imperfections (Utility grade) or as a premium tower system that is free of imperfections.



Carbon Steel Tower with Guy Lines											
Utility Grade						Premium Grade					
UPS Part Number	Diameter mm	Inches	Tower Height Meters	Feet		UPS Part Number	Diameter mm	Inches	Tower Height Meters	Feet	
UPTS-064GC1	55.25	2.175	6.4	21		UPTS-064GC4	55.25	2.175	6.4	21	
UPTS-064GC2			6.4	21		UPTS-064GC5			6.4	21	
UPTS-128GC2	60.33	2.375	12.8	42		UPTS-128GC5	60.33	2.375	12.8	42	
UPTS-192GC2			19.2	63		UPTS-192GC5			19.2	63	
UPTS-064GC3			6.4	21		UPTS-064GC6			6.4	21	
UPTS-128GC3	73.01	2.875	12.8	42		UPTS-128GC6	73.01	2.875	12.8	42	
UPTS-192GC3			19.2	63		UPTS-192GC6			19.2	63	

Stainless Steel Tower with Guy Lines											
Utility Grade						Premium Grade					
UPS Part Number	Diameter mm	Inches	Tower Height Meters	Feet		UPS Part Number	Diameter mm	Inches	Tower Height Meters	Feet	
UPTS-064GS1	55.25	2.175	6.4	21		UPTS-064GS4	55.25	2.175	6.4	21	
UPTS-064GS2			6.4	21		UPTS-064GS5			6.4	21	
UPTS-128GS2	60.33	2.375	12.8	42		UPTS-128GS5	60.33	2.375	12.8	42	
UPTS-192GS2			19.2	63		UPTS-192GS5			19.2	63	
UPTS-064GS3			6.4	21		UPTS-064GS6			6.4	21	
UPTS-128GS3	73.01	2.875	12.8	42		UPTS-128GS6	73.01	2.875	12.8	42	
UPTS-192GS3			19.2	63		UPTS-192GS6			19.2	63	

Monopole Free Standing Tower

Monopole towers are free standing towers that are self supporting and have a small footprint. Basic monopole towers are typically installed with a crane. Monopole hinged towers can be installed with a gin pole instead of a crane. Towers are constructed from galvanized steel.



Monopole		
UPS Part Number	Tower Height Meters	Feet
UPTS-080MG1	8	26.25
UPTS-090MG1	9	29.52
UPTS-120MG1	12	39.37
UPTS-160MG1	16	52.49
UPTS-180MG1	18	59.05
UPTS-200MG1	20	65.61
UPTS-240MG1	24	78.74

Monopole Hinged		
UPS Part Number	Tower Height	
	Meters	Feet
UPTS-080HG1	8	26.25
UPTS-090HG1	9	29.52
UPTS-120HG1	12	39.37
UPTS-160HG1	16	52.49



Easy-Up Hydraulic Free Standing Tower

Easy-up towers are the easiest way to put up and take down a turbine. Designed to raise and lower by the use of a hydraulic cylinder, turbines can be easily serviced and inspected quickly and effectively. All towers are built with galvanized steel to resist corrosion.



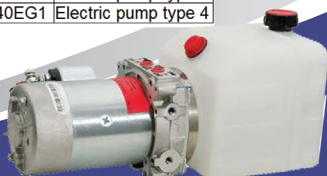
Easy-Up Hydraulic (HPU Required)				
UPS Part Number	Tower Height		Max Weight Rating	
	Meters	Feet	Kg	Pounds
UPTS-080EG1	8	26.25	120	264.6
UPTS-090EG1	9	29.52	200	440.9
UPTS-120EG1	12	39.37	500	1102.3
UPTS-160EG1	16	52.49	1000	2204.6
UPTS-180EG1	18	59.05	2000	4409.2
UPTS-200EG1	20	65.61	2000	4409.2
UPTS-240EG1	24	78.74	2000	4409.2



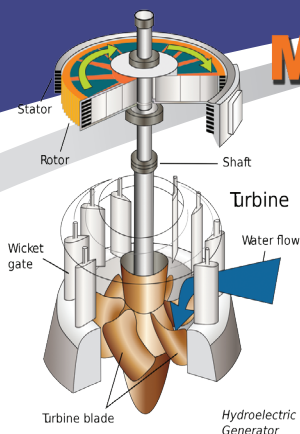
Matching HPU (Pump and hydraulic cylinder)		
UPS Part Number	Matches Tower	Description
UPHTA-M1	UPTS-080EG1	Manual pump
UPHTA-M1	UPTS-090EG1	Manual pump
UPHTA-E1	UPTS-120EG1	Electric pump type 1
UPHTA-E2	UPTS-160EG1	Electric pump type 2
UPHTA-E3	UPTS-180EG1	Electric pump type 3
UPHTA-E3	UPTS-200EG1	Electric pump type 3
UPHTA-E4	UPTS-240EG1	Electric pump type 4



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Micro Hydro Generators



Micro-hydroelectric generators are a cost effective way to harness the power of nature. Although they require more setup than any other alternative energy system, they have very little maintenance. They require a water source capable of providing the required water flow and head. Consult our web site for more information on setup requirements.



Low head turbines also available

Pelton Single Nozzle

Pelton turbines employ a high head and high pressure water source to spin a turbine and exhaust the water below. The following models use a single water jet.

Unplugged Part Number	Nominal Rated Power	Head (meters)	Flow Liters/sec	Pipe Size (mm)	Dimensions (cm)	Generation Per Year*	Total Weight (kg)
UPMH-PS003	300 W	12-14	3-5	50	35x30x37	2496.6 kWh	25
UPMH-PS005	500 W	12-18	5-7	50-75	38x34x40	4610.5 kWh	27
UPMH-PS007	750 W	14-18	5-8	75	38x34x42	6241.5 kWh	34
UPMH-PS015	1,500 W	18-25	8-11	125	75x44x52	12,483 MWh	70
UPMH-PS020	2,000 W	20-30	14-18	125-150	77x47x56	16,644 MWh	81
UPMH-PS030	3,000 W	25-33	15-19	125-150	79x47x60	24,966 MWh	90
UPMH-PS050	5,000 W	28-35	25-35	150-200	88x55x70	41,610 MWh	175
UPMH-PS060	6,000 W	30-40	30-38	150-200	88x57x75	49,932 MWh	196
UPMH-PS10K	10,000 W	30-38	40-50	200-250	85x65x85	87,600 MWh	269
UPMH-PS15K	15,000 W	35-50	48-60	200-250	115x95x102	24.83 MWh	412

*Based on 24 hour usage and 95% serviceability



Built on proven Pelton turbine technology, this style of turbine uses two high pressure water jets instead of the single just used in a standard Pelton

Pelton Turbo Twin

Unplugged Part Number	Nominal Rated Power	Head (meters)	Flow Liters/sec	Pipe Size (mm)	Dimensions (cm)	Generation Per Year*	Total Weight (kg)
UPMH-PT015	1,500 W	15	12-18	125-150	88x60x55	12,483 MWh	108
UPMH-PT030	3,000 W	18-20	18-30	150	88x57x60	24,966 MWh	122
UPMH-PT060	6,000 W	18-20	38-50	200	105x75x77	49,932 MWh	255
UPMH-PT10K	10,000 W	25-30	50-60	200-250	105x82x82	83,220 MWh	318
UPMH-PT12K	12,000 W	28-35	50-60	200-250	110x85x100	99,864 MWh	325
UPMH-PT15K	15,000 W	30-40	60-70	200	126x93x98	124,830 MWh	395
UPMH-PT20K	20,000 W	30-45	60-100	250-300	120x90x115	166,440 MWh	380
UPMH-PT30K	30,000 W	38-45	90-120	250-300	120x88x115	249,660 MWh	615

*Based on 24 hour usage and 95% serviceability



Francis Turbine

This popular style of large turbine is available with a traditional excitation style generator or a low maintenance permanent magnet alternator.

Unplugged Part Number	Nominal Rated Power	Head (meters)	Flow Liters/sec	Pipe Size (mm)	Nominal RPM	Generation Per Year*
UPMH-FR15K	15 kW	20	100-120	200	1000	124.83 MWh
UPMH-FR30K	30kW	25	120-160	200	1000	249.66 MWh
UPMH-FR55K	55kW	35	170-200	200	1000	457.71 MWh
UPMH-FR75K	75kW	37	200-250	400	1000	624.15 MWh
UPMH-FR00K	100kW	45	300	400	1000	832.20 MWh

*Based on 24 hour usage and 95% serviceability



Unplugged Power Systems
The Other Power Company.ca

Power Inverters

Modified Sine Wave



Modified sine wave inverters provide a cheap source of alternating current. Modified sine wave inverters produce power with a wave form that is an approximation of the power from the grid but does not produce a perfect wave, but rather a squared off version of a pure sine wave. Although they have been known to cause problems with some TVs and other high end electronics, they are typically suitable for most loads for short term use.

Unplugged Part Number	Nominal Rated Power (W)	Maximum Peak Rating
UPPI-xx-015-121P-WSN	1500	3000
UPPI-xx-020-121P-WSN	2000	4000
UPPI-xx-025-121P-WSN	2500	5000
UPPI-xx-030-121P-WSN	3000	6000
UPPI-xx-040-121P-WSN	4000	8000
UPPI-xx-050-121P-WSN	5000	10,000
UPPI-xx-060-121P-WSN	6000	12,000

Please Note:

All Pure and Modified Sine Wave Inverters are available in 12, 24 and 48VDC input. 120VAC out is standard and 220VAC is also available.

HOME INVERTER

Pure Sine Wave



Pure sine wave inverters produce power with a wave form that is almost identical to the power from the power company. In many cases it is actually cleaner power than is available from the grid. These inverters extend the life of your appliances and do not produce the characteristic hum that is typically present when using modified sine wave inverters.

Unplugged Part Number	Nominal Rated Power (W)	30 Second Peak Rating
UPPI-xx-003-111P-TSS	300	400
UPPI-xx-005-111P-TSS	500	600
UPPI-xx-006-111P-TSS	600	750
UPPI-xx-008-111P-TSS	800	1000
UPPI-xx-010-111P-TSS	1000	1250
UPPI-xx-015-111P-TSS	1500	1750
UPPI-xx-020-111P-TSS	2000	2300
UPPI-xx-025-111P-TSS	2500	2750
UPPI-xx-030-111P-TSS	3000	3300
UPPI-xx-040-111P-TSS	4000	4400
UPPI-xx-050-111P-TSS	5000	5500
UPPI-xx-060-111P-TSS	6000	6600

Charging Inverters

Charging inverters produce a pure sine wave for your AC loads but are also capable of using an AC input to service the output loads as well as charge your batteries. If your battery pack runs low, simply start your generator (or plug in to 'Shore Power') and you can carry on without the worry of being in the dark. This is a great feature for dry camping, off-grid homes or marine use. Inverters are available in 12, 24, and 48VDC Inputs as well as 120 or 240VAC output.

Unplugged Part Number	Nominal Rated Power (W)	30 Second Peak Rating	DC Charging Capacity (Amps)
UPPI-12-010-121P-TSS	1000	2000	35
UPPI-24-010-121P-TSS	1000	2000	35
UPPI-12-020-121P-TSS	2000	4000	65
UPPI-24-020-121P-TSS	2000	4000	35
UPPI-12-030-121P-TSS	3000	6000	45
UPPI-24-030-121P-TSS	3000	6000	45
UPPI-24-040-121P-TSS	4000	8000	35
UPPI-48-040-121P-TSS	4000	8000	35
UPPI-24-050-121P-TSS	5000	10,000	45
UPPI-48-050-121P-TSS	5000	10,000	45
UPPI-24-060-121P-TSS	6000	12,000	50
UPPI-48-060-121P-TSS	6000	12,000	50



Unplugged Power Systems
The Other Power Company.ca

AGM Batteries

Manufactured for Unplugged Power Systems



Unique design includes space to write installation date on the battery for better tracking of battery life in emergency lighting and UPS installations

Part Number	Description
Gell Cell Refurbished	
UPBAT-GEL-12-100	12v 100ah Refurbished GEL
AGM Deep Cycle Batteries	
UPLB-12004-STAA	12v 4ah AGM Battery
UPLB-12007-STAA	12v 7ah AGM Battery
UPLB-12018-BTAA	12v 18ah AGM Battery
UPLB-12055-BTAA	12v 55ah AGM Battery
UPLB-12100-BTAA	12v 100ah AGM Battery
UPLB-12200-BTAA	12v 200ah AGM Battery

Pre-made Battery Connection Cables



Part Number	Description
4 Gauge	
UPPMC-0406-AB	6" - 1/4" Terminal
UPPMC-0412-AB	12" - 1/4" Terminal
2 Gauge	
UPPMC-0206-AB	6" - 1/4" Terminal
UPPMC-0212-AB	12" - 1/4" Terminal
1 Gauge	
UPPMC-0106-BB	6" - 3/8" Terminal
UPPMC-0112-BB	12" - 3/8" Terminal
0 Gauge	
UPPMC-0006-CB	6" - 1/2" Terminal
UPPMC-0012-CB	12" - 1/2" Terminal
00 Gauge	
UPPMC-0006-CB	6" - 1/2" Terminal
UPPMC-0012-CB	12" - 1/2" Terminal

Bulk Battery Wire



Custom wire lengths available. Battery lugs and can also be attached with professional markings and heat shrink. Cable sizes from 14AWG to 00AWG in various colors are available.

Call with your specific requirements.



Genderless Anderson Style SMH Connectors

100% compatible with Anderson DC disconnects. SMH connectors and accessories are the standard used on most forklift batteries and many UPS systems. Connectors are 'genderless' meaning that they will connect to themselves while maintaining correct polarity. Crimp or solder wire termination.



Part Number	Description	Max Wire Size	Amperage
UPCON-AND050-600-D	SMH-50	6 AWG	50
UPCON-AND120-600-D	SMH-120	4 AWG	120
UPCON-AND175-600-D	SMH-175	1/0 AWG	175
UPCON-AND350-600-D	SMH-300	2/0 AWG	350
UPCON-ANDH02-000-D	Handle for 175A and 350A Connectors		



Battery Cable Terminations

Part Number	Hole Size		Wire Area
	inch	mm	
8 Gauge			
UPBL-T1-10-08	5/16	8	10mm ²
UPBL-T1-10-10	3/8	10	
6 Gauge			
UPBL-T1-16-08	5/16	8	16mm ²
UPBL-T1-16-10	3/8	10	
4 Gauge			
UPBL-T1-25-08	5/16	8	25mm ²
UPBL-T1-25-10	3/8	10	
2 Gauge			
UPBL-T1-35-08	5/16	8	35mm ²
UPBL-T1-35-10	3/8	10	
1 Gauge			
UPBL-T1-50-08	5/16	8	50mm ²
UPBL-T1-50-10	3/8	10	
UPBL-T1-50-12	1/2	12	
1/0 Gauge			
UPBL-T1-55-08	5/16	8	55mm ²
UPBL-T1-55-10	3/8	10	
UPBL-T1-55-12	1/2	12	



Part Number	Hole Size		Wire Area
	inch	mm	
2/0 Gauge			
UPBL-T1-70-08	5/16	8	70mm ²
UPBL-T1-70-10	3/8	10	
UPBL-T1-70-12	1/2	12	
3/0 Gauge			
UPBL-T1-95-08	5/16	8	95mm ²
UPBL-T1-95-10	3/8	10	
UPBL-T1-95-12	1/2	12	
UPBL-T1-95-16	11/16	16	
4/0 Gauge			
UPBL-T1-120-08	5/16	8	120mm ²
UPBL-T1-120-10	3/8	10	
UPBL-T1-120-12	1/2	12	
UPBL-T1-120-16	11/16	16	

16 Ton Hydraulic Wire Terminal Crimper

Cable crimper including 11 dies and carrying case.

Crimping Range: 16-300mm²

Crimping Dies:

16/25/35/50/70/95/120/150/185/240/300mm²

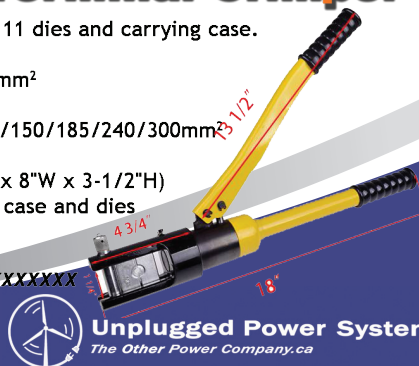
11 die pairs

Overall dimension (20"L x 8"W x 3-1/2"H)

Weight: 13 lbs including case and dies

Crimping Force: 16 Ton

Part Number: UPTOOLXXXXXX



Unplugged Power Systems
The Other Power Company.ca

DC Power Accessories

LCD Digital Programmable Timer Relay DC 12V

Daily and weekly timer functions supported via digital menu system. Built in battery backup for time and date functions.

Panel hole mount: 64mm diameter
Power consumption: 4.4VA
Current consumption without load: 0.015mA



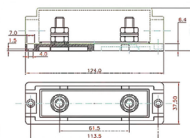
SWITCHING CURRENT AC

Resistive load (LVD .IEC) 16A /250V AC
Inductive load cos. 0.6 8A /250V AC
Incandescent lamp load 1000W

SWITCHING CURRENT DC: 16A/24V DC



ANL Fuse Holder



Part Number:

UPAFAEAEFEAEAE

Fused Distribution Blocks With Blown Fuse Indication



PVC fuse block with common bus and fused spade terminals for input and output. Fuses are covered with snap-on acrylic cover for easy fuse replacement. LED indicators to determine blown fuse locations. Designed for type ATC fuses.

Maximum voltage rating 12VDC due to LED indicators.

Part Number	Description
UPFA-FB2-04	4 Gang blade fuse distribution block
UPFA-FB2-06	6 Gang blade fuse holder distribution block
UPFA-FB2-10	10 Gang blade fuse holder distribution block

Inline Fuse Holder

Max 35A - 20CM Wire
Standard inline blade fuse holder
Part Number: UPXXXXXXX

Water tight inline blade fuse holder.
Part Number: UPXXXXXXX



Widely used with DC electric equipment to supply power in automotive, marine, RV and off-grid power systems. Wiring kit for includes fuse holder and fuse.

Barrel inner diameter: 2.2cm/0.87" Amperage: 10A Max
Barrel inner length: 3.0cm/1.18" Cord Length: 67cm/26.4"
Voltage: 12 or 24V

Part Number: UPGM-ELE-3510

Surface Mounted DC Breaker

Inline and stud DC breakers are primarily designed for automotive and marine use. These breakers are also suitable for small off-grid power installations.

Part Number	Amperage	Description
UPBRD-040-BDA-048	40A	
UPBRD-050-BDA-048	50A	
UPBRD-060-BDA-048	60A	
UPBRD-070-BDA-048	70A	
UPBRD-080-BDA-048	80A	
UPBRD-100-BDA-048	100A	
UPBRD-150-BDA-048	150A	
UPBRD-160-BDA-048	160A	
UPBRD-180-BDA-048	180A	
UPBRD-200-BDA-048	200A	
UPBRD-250-BDA-048	250A	
UPBRD-300-BDA-048	300A	
UPBRD-020-DDA-048	20A	
UPBRD-030-DDA-048	30A	
UPBRD-040-DDA-048	40A	
UPBRD-050-DDA-048	50A	
UPBRD-060-DDA-048	60A	
UPBRD-080-DDA-048	80A	
UPBRD-100-DDA-048	100A	



12/24/36/48V Stud type DC Breaker



12/24/36/48V In-line DC Breaker

DC Circuit Breaker DIN Rail Mounted DC Breaker



DIN rail mountable DC breakers rated for 5A to 300A at up to 125VDC. These international standard connections provide the versatility of mounting options coupled with compatibility in all DC systems.

Fused Distribution Blocks








Rigid PVC fuse block with isolated spade terminals for input and output. Terminals are covered with a snap-on acrylic cover for easy fuse replacement. Designed for type ATC fuses.

Maximum current rating 60A per fuse.




Part Number	Description
UPFA-FB1-04	4 Gang blade fuse distribution block
UPFA-FB1-06	6 Gang blade fuse holder distribution block



Part Number	Fuse Type	Rating
UPFA-AGC1-010-01		1A
UPFA-AGC1-015-01		1.5A
UPFA-AGC1-020-01		2A
UPFA-AGC1-025-01		2.5A
UPFA-AGC1-030-01		3A
UPFA-AGC1-040-01		4A
UPFA-AGC1-050-01		5A
UPFA-AGC1-060-01		6A
UPFA-AGC1-070-01		7A
UPFA-AGC1-075-01		7.5A
UPFA-AGC1-080-01		8A
UPFA-AGC1-100-01		10A
UPFA-AGC1-120-01		12A
UPFA-AGC1-150-01		15A
UPFA-AGC1-200-01		20A
UPFA-AGC1-250-01		25A
UPFA-AGC1-300-01	AGC glass fuse 1-1/4" x 1/4"	30A
UPFA-AGC1-350-01		35A
UPFA-AGC1-400-01		40A
UPFA-ATC1-005-01		5A
UPFA-ATC1-007-01		7.5A
UPFA-ATC1-010-01		10A
UPFA-ATC1-015-01		15A
UPFA-ATC1-020-01		20A
UPFA-ATC1-025-01		25A
UPFA-ATC1-030-01		30A
UPFA-ATM1-002-01		2A
UPFA-ATM1-003-01		3A
UPFA-ATM1-004-01		4A
UPFA-ATM1-005-01		5A
UPFA-ATM1-007-01		7.5A
UPFA-ATM1-010-01		10A
UPFA-ATM1-015-01		15A
UPFA-ATM1-020-01		20A
UPFA-ATM1-025-01		25A
UPFA-ATM1-030-01		30A
UPFA-AGU1-010-01		10A
UPFA-AGU1-020-01		20A
UPFA-AGU1-030-01		30A
UPFA-AGU1-032-01		32A
UPFA-AGU1-040-01		40A
UPFA-AGU1-050-01		50A
UPFA-AGU1-060-01		60A
UPFA-AGU1-100-01		100A
UPFA-AGU1-125-01		125A
UPFA-AGU1-200-01		200A
UPFA-MRBF-030-01		30A
UPFA-MRBF-040-01		40A
UPFA-MRBF-050-01	MRBF Terminal Fuse 23.0 mm x 27.8 mm x 16.3 mm	50A
UPFA-MRBF-060-01		60A
UPFA-MRBF-075-01		75A
UPFA-MRBF-080-01		80A
UPFA-MRBF-090-01		90A
UPFA-MRBF-100-01		100A
UPFA-MRBF-125-01		125A
UPFA-MRBF-150-01		150A
UPFA-MRBF-175-01		175A
UPFA-MRBF-200-01		200A
UPFA-MRBF-250-01		250A
UPFA-MRBF-300-01		300A

Fuses



Part Number	Fuse Type	Rating
UPFA-ANL1-035-01		35A
UPFA-ANL1-040-01		40A
UPFA-ANL1-050-01		50A
UPFA-ANL1-060-01		60A
UPFA-ANL1-080-01		80A
UPFA-ANL1-100-01		100A
UPFA-ANL1-130-01		130A
UPFA-ANL1-150-01		150A
UPFA-ANL1-175-01		175A
UPFA-ANL1-200-01		200A
UPFA-ANL1-250-01		250A
UPFA-ANL1-300-01		300A
UPFA-ANM1-020-01		20A
UPFA-ANM1-025-01		25A
UPFA-ANM1-030-01		30A
UPFA-ANM1-040-01		40A
UPFA-ANM1-050-01		50A
UPFA-ANM1-060-01		60A
UPFA-ANM1-070-01		70A
UPFA-ANM1-080-01		80A
UPFA-ANM1-100-01		100A
UPFA-ANM1-125-01		125A
UPFA-ANM1-150-01		150A
UPFA-ANM1-175-01		175A
UPFA-ANM1-200-01		200A
UPFA-ANM1-250-01		250A
UPFA-ANM1-300-01		300A
UPFA-MAX1-020-01		20A
UPFA-MAX1-025-01		25A
UPFA-MAX1-030-01		30A
UPFA-MAX1-035-01	MAXi Fuse 29 mm x 21 mm	35A
UPFA-MAX1-040-01		40A
UPFA-MAX1-050-01		50A
UPFA-MAX1-060-01		60A
UPFA-MAX1-070-01		70A
UPFA-MAX1-080-01		80A

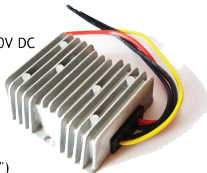


Power Buck Converter

Designed to convert 24 or 48VDC to 12VDC to use 12V devices on higher voltage DC battery banks.

Specifications:

Input voltage: 24V or 48V DC
 Input voltage range: 18V-34V DC, 42 - 60V DC
 Output voltage: 12V DC
 Output current: 10A (max), 120W
 Operating temperature: -10° C ~ +60° C
 Wire lengths: 150mm (6")
 Construction: Die-cast aluminum casing
 Epoxy sealed base
 Dimensions: 74 x 74 x 31mm (3 x 3 x 1.2")

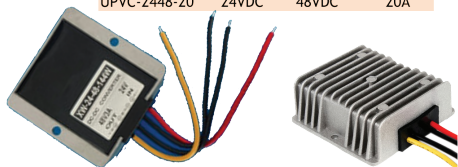


Part Number	Input	Output	Max Rating
UPVC-2412-05	24VDC	12VDC	5A
UPVC-2412-10	24VDC	12VDC	10A
UPVC-2412-20	24VDC	12VDC	20A
UPVC-4824-05	48VDC	24VDC	5A
UPVC-4824-10	48VDC	24VDC	10A
UPVC-4824-20	48VDC	24VDC	20A

Power Boost Converter

For situations that require a 24VDC or 48VDC power source and only have 12 volts available, power boost converters are the right choice. Available in a range of specifications, these power converters add greater flexibility to your power system designs.

Part Number	Input	Output	Max Rating
UPVC-1224-05	12VDC	24VDC	5A
UPVC-1224-10	12VDC	24VDC	10A
UPVC-1224-20	12VDC	24VDC	20A
UPVC-1248-05	12VDC	48VDC	5A
UPVC-1248-10	12VDC	48VDC	10A
UPVC-1248-20	12VDC	48VDC	20A
UPVC-2448-05	24VDC	48VDC	5A
UPVC-2448-10	24VDC	48VDC	10A
UPVC-2448-20	24VDC	48VDC	20A



Household Plug-In Watt-Hour Meters

Track the energy used by any 120VAC appliance that you use (up to 15Amps). Helps to reduce bills by giving visual proof of what an appliance costs to operate. Easy to see large LCD displays.

Value Brand Energy and Cost Monitor

Value brand energy meter gives you instant energy consumption readings as well as usage and cost over time. Instant cost per hour scan can be programmed with your local electrical kW/h rate for cost accounting. This meter is essential in getting a handle on your home energy consumption.



Get control of
your energy
costs!



U-Vue Single Socket Energy and Cost Monitor

Displays: costs, KW usage, and various comparisons. Includes instructions to easily programmed for your utility company's actual Killowatt-Hour charge. Has a 2nd built in function to track the lower off peak costs if your utility company offers those. Features built in backup batteries, bright green and red indicators, and a large easy to read LCD. Simply plug the U-Vue into any 120VAC socket and plug your device into it.

150A 60VDC Watt Meter Power Analyzer with Backlight LCD

Model ZN08 Part Number: UPSI-M3M005-060-5LBA
 All-In-One Meter - power meter, volt meter, amp-hour meter, ammeter and energy meter.

Operating Voltage 4.8 - 60VDC
 (0V with optional auxiliary battery)

Size: 85 mm x 43 mm x 25 mm

Energy Measurement: 0-150 Amps
 0-60 Volts
 0-6554 Watts
 0-65 Amp hour
 0-6554 Watt hour



DIN Rail Mounted AC Volt Amp Watt Meter

Model D52-2042
 PN: UPSI-M2M080-100-6DMA

Display: 0.5 inch LED
 Dimensions: 54 x 80 x 64mm
 Voltage Range: AC80-300V
 Amperage Range: 0-99.9A
 Display color: Red - Green



Model D52-2047
 PN: UPSI-M3M080-100-9DMA

Same as Model D52-2042 but with watt meter and Watt-hour meter integrated.
 Wattage Range: 0-30kW
 Energy Range: 0-99999kwh
 Time Range: 0-999.59 Hours



0.56" Digit LED Panel Mount Volt Meter

Available in a variety of colors, these 3 digit volt meters brightly display voltage in dark locations. Voltage is adjustable to calibrate for long wire runs and voltage drop over distance.



Part Number	Voltage Range	LED Color	Power Consumption	Dimensions	Hole Size
UPSI-DV1005-030-3DRA	5-30VDC	Red	< 23mA	47 x 29 x 22 mm	46 x 27 mm
UPSI-DV1005-030-3DGA		Green	<18mA		
UPSI-DV1005-030-3DBA		Blue	<13mA		
UPSI-AV1060-300-3DRA	60-300VAC	Red	N/A	48 x 29 x 21 mm	47 x 28 mm
UPSI-AV1060-300-3DGA		Green			
UPSI-AV1060-300-3DBA		Blue			
UPSI-AV1060-500-3DRA	60-500VAC	Red	N/A	48 x 29 x 21 mm	47 x 28 mm
UPSI-AV1060-500-3DGA		Green			
UPSI-AV1060-500-3DBA		Blue			

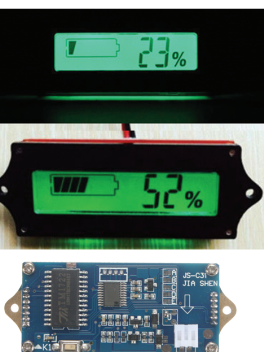
LED Panel Mount Volt and Amp Meter

Voltage and Amperage display as 1 panel mount unit



12V Lead-acid Lithium LiPo Battery Capacity LCD Indicator

Model QP1330 Part Number: UPSI-DG1006-012-2LGA



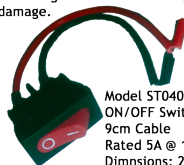
Battery percentage display for either LiPO or Lead Acid batteries. Backlit LCD. Voltage or % display.

Dimensions: 48 x 25 mm
Thickness: 10 mm
Hole Size: 43 x 11.3 mm
Cable length: 40cm
Working Current: 5mA
(No Backlight)
15mA
(With Backlight)

Working Voltage: 12VDC

Accessories For Instrumentation

To conserve power, instrumentation used in small DC systems should be switched to conserve energy when not being viewed. To this end, we offer small amperage 10 profile switches so that meters can be turned off when not being viewed. We also suggest that they protected by fuses to prevent damage.



Model ST0409
ON/OFF Switch
9cm Cable
Rated 5A @ 12VDC
Dimensions: 21 x 9 mm



Model KCD1-101
ON/OFF Switch
Rated 10A @ 25VAC
Dimensions: 21 x 15 mm

5A Glass Fuse Holder
Part Number:
UPFA-005DC-2FH101

5A Blade Fuse Holder
Part Number:
UPFA-005DC-XFH101



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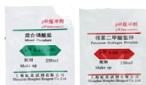
Precision Digital pH Tester

This pH tester is great for testing the pH of your pool or the glycol in your solar system. Pocket sized and ready to use. Includes calibration solution.

Range: 0.0 - 14.0 pH
Resolution: 0.1 pH
Accuracy: ± 0.1 pH (20°C), ± 0.2 pH
Working temperature: 0 - 50°C (32 - 122°F)
Powered by 3 x 1.5V button batteries

Comes with:

- 1 X pH tester
- 1 X Calibration screwdriver
- 1 X Bag potassium hydrogen phthalate buffer
- 1 X Bag mixed phosphate buffer



Digital Anemometer

Air Velocity Specification:

Range: 0 - 30 m/s, 0 - 90 km/h,
0 - 5860 ft/min, 0 - 65 mph,
0 - 55 Knots. Resolution: 0.1 m/s,
0.3 km/h, 19 ft/min, 0.2 mph,
0.2 Knots. Threshold: 0.1m/s,
0.3 km/h, 39 ft/min, 0.2 mph,
0.1 Knots. Accuracy: $\pm 5\%$.

Air Temperature Specification:

Thermometer: NTC Thermometer
Range: Between -10°C and 45°C (between 14°F and 113°F)
Storage Temperature: Between -40°C and +60°C,
-40°F and 140°F

Resolution: 0.2°C, 0.36°F

Accuracy: $\pm 2^\circ\text{C}$, $\pm 3.6^\circ\text{F}$

Current Consumption: About 3mA

Operating Humidity: Less than or equal to 90% RH



LCD Digital Thermometer

Part Number:
UPSI-CT1950-070-3LKA

Battery powered and great for use in refrigerators, battery monitoring or anywhere you need a remote temperature measured. Long 1 meter molded case probe line.

Specifications:
Temperature range: -50 - +70°C
Resolution: 0.1
Accuracy: $\pm 1^\circ\text{C}$
Power: 2x LR44 batteries
Size: 47*28*14mm



Graphic Digital Thermometer

Part Number:
UPSI-TG1000-070-3GMA

Can be powered by PC with included 4-pin connector. Display in either °C and °F with just a press on the push button on the rear cover. Backlit LCD.

Dimensions: 48 X 28(mm)
Thickness: 17mm
Temp Range: 0°C - 70°C
Cable length: 40cm
Length of temp probe: 60cm
Water-proof probe
Working Voltage: 5VDC

Computer Type 5V connector included



Humidity Display

Part Number:
UPSI-HT1010-099-5LKA

Indoor temperature and humidity display.

Temperature Measurement Accuracy: $\pm 1.0^\circ\text{C}$
Temperature Sampling Cycle: 10 Seconds
Temperature Measurement Accuracy: $\pm 1^\circ\text{C}$
Relative Humidity Test Range: 10% - 99%
Humidity Resolution: 1%
Humidity Measurement Accuracy: $\pm 5\%$
Battery: 2x DC 1.5V LR44
Size: 4.7cm x 2.7cm x 1.3cm



Inductive Voltage Detector

Model: 1AC-DII

Non-contact tester with LED flashlight

The next generation AC non-contact voltage testers are easy to use – just touch the tip to a terminal strip, outlet, or supply cord to quickly test for energized circuits. When the tip glows red and the unit beeps, you know there is voltage present.

Frequency Range: 50 to 500 Hz
Test Voltage Range: 90-1000V AC
Safety Rating: CAT II 1000v
Powered By: 2 x AAA Batteries
(Not included)



A830L Digital Multimeter

The A830L Digital Multimeter is a very affordable and handy piece of test equipment. It features an easy to read 3.5 digit LCD display. It is equipped with 5 functions and 19 ranges. Each test position is quickly and easily selected with a simple turn of the single selector switch. Built-in diode test and transistor test features quickly test semiconductors. Both audible and visual continuity test functions.

Integrated diode and transistor tester

DC voltage: 200mV to 600V $\pm 0.5\%$

AC voltage: 200V to 600V $\pm 1\%$

DC current: 200uA to 10A $\pm 1.8\%$

Resistance: 200 to 2M $\pm 1\%$

3 1/2 digital LCD screen

Data retention function

Background light function

Overload protection

Power supply: 9V type 6F22 battery

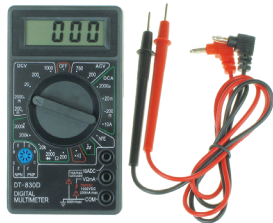
Max display: 1999

Dimensions: 135 * 67 * 33mm

Weight: 145g (including battery)



DT830D Digital Multimeter



The DT830D Digital Multimeter is a very affordable and handy piece of test equipment. It features an easy to read 3.5 digit LCD display. It is equipped with 5 functions and 19 ranges. Each test position is quickly and easily selected with a simple turn of the single selector switch. Built-in diode test and transistor test features quickly test semiconductors. Both audible and visual continuity test functions.

DC Voltage Ranges: 200 mV 2000mV, 20V, 200V and 1000V

DC Current Ranges: 2000mA, 20ma, 200ma and 10A

AC Voltage Ranges: 200 V and 750 V

Resistance Ranges: 200, 2000 Ohms, 20K, 200K and 2000K Ohms

Only 2.8 x 5 x 1 inches 6 oz. (70x126x24mm 170g). Test load included.

DT-9205A Digital Multimeter

Accurate, compact, handheld, easy to carry and operate with large LCD screen. Fully featured multimeter with AC and DC voltage and current measurement. Also includes transistor, diode and capacitor test functions and surge protection. Automatic zero, auto-polarity selection. High quality test buzzer sound and LED indication.

DC Voltage (V): 200mV to 1000V

AC Voltage (V): 200mV to 700V

DC Current (A): 2mA to 20A

AC Current (A): 2mA to 20A

Resistance (Ohm): 200 to 2000M

Capacitance (F): 2nF to 200uF

Background light function

Overload protection

Power supply: 9V type 6F22 battery

Max display: 1999

Dimensions: 190mm*90mm*30mm

Weight: 133g (including battery)



Digital Light Meters

HS1010



High accuracy precision light meter. This value priced light meter features automatic measuring and data recording. Suitable for field measurement of indoor or outdoor lighting.

Features:

- Laser pointer for accurate target aiming
- Backlit display
- Measuring Range: 2000/20000/200000 Lux
200/2000/20000 Fc
- Resolution: 1 Lux/0.1Fc

Measuring Level Selection: Manual or Automatic

- MAX and MIN Reading Hold Functions
- Unit selection (Lux or Footcandles)
- Automatic Data Recording
- Low battery indication
- Power Supply: 2x AAA batteries (not included)

HS1010A



Gasoline Generators

Reliable Portable Power

Wheel kits and electric start optional on all generators



Powered by



SUBARU

UPS Part Number	Frame Style	Rated Output	Max Cont. Output	Starter	Rated AC Voltages
UPPG-G-008-AS	Open Frame	850 W	1050 W	Recoil	120V
UPPG-G-010-AS	Open Frame	1.0 KW	1.2 KW	Recoil	120V / 240V
UPPG-G-025-AS	Open Frame	2.5 KW	2.8 KW	Recoil/Electric	120V / 240V
UPPG-G-028-AS	Open Frame	2.8 KW	3.3 KW	Recoil/Electric	120V / 240V
UPPG-G-050-AS	Open Frame	5.0 KW	5.5 KW	Recoil/Electric	120V / 240V
UPPG-G-060-AS	Open Frame	6.0 KW	6.5 KW	Recoil/Electric	120V / 240V
UPPG-G-069-AS	Open Frame	6.9 KW	8.0 KW	Recoil/Electric	120V / 240V
UPPG-G-100-AS	Open Frame	10 KW	12 KW	Recoil/Electric	120V / 240V

Propane and Natural Gas Generators

Powered by either propane or natural gas, these generators feature automatic fuel shut off when engine is stopped. Perfect for integration into a system that has gas already available.

UPS Part Number	Description	Rated Output	Max Cont. Output	Starter	Rated AC Voltages
UPPG-P-030-BO	Propane Open Frame Style	3.0 KW	3.5 KW	Recoil/Electric	120V / 240V
UPPG-P-055-BO	Propane Open Frame Style	5.5 KW	6.5 KW	Recoil/Electric	120V / 240V
UPPG-L-030-BO	Natural Gas Open Frame Style	3.0 KW	3.5 KW	Recoil/Electric	120V / 240V
UPPG-L-055-BO	Natural Gas Open Frame Style	5.5 KW	6.5 KW	Recoil/Electric	120V / 240V



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DC Generators

**DC Output Voltages Available:
12 / 24 / 36 / 48 / 56 DC**

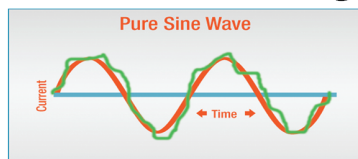


UPS Part Number	Frame Style	Rated DC Output (Watts)	Max Cont. Output
UPPG-G-006-xS	Suitcase	0.65 KW	650 W
UPPG-G-018-xS	Suitcase	1.8 KW	1.2 KW
UPPG-G-025-xO	Open Frame	2.0 KW	1.8 KW
UPPG-G-030-xO	Open Frame	3.0 KW	2.8 KW
UPPG-G-040-xO	Open Frame	4.0 KW	3.8 KW
UPPG-G-050-xO	Open Frame	5.0 KW	4.6 KW
UPPG-G-030-xS	Enclosed/Silent	3.0 KW	2.8 KW

DC generators produce direct current for use in battery charging applications and powering devices that would be normally powered by battery banks.

Inverter Generators

Pure sine wave stabilized output



UPS Part Number	Frame Style	Rated Output (Watts)	Rated Output (VA)	Max Cont. Output	Rated AC Voltages
UPPG-G-008-AS	Suitcase	0.8 KW	1.0 KVA	850 W	120V
UPPG-G-015-AS	Suitcase	1.5 KW	1.6 KVA	1.5 KW	120V
UPPG-G-025-AS	Suitcase	2.2 KW	2.5 KVA	2.2 KW	120V
UPPG-G-035-AS	Suitcase	3.5 KW	3.5 KVA	3.5 KW	120V
UPPG-G-030-AI	Enclosed	3.0 KW	4.0 KVA	3.3 KW	120V

PTO Generators

For connection to tractor PTO



Common Specifications

Single-phase: $\text{COS}\Phi=1.0$

Three-phase: $\text{COS}\Phi=0.8$ (3 Phase Wye)

Brushless design, less than 6% THD

Shaft Diameter: 1 3/8in., 6-Spline

Input RPM: 3000/3600

UPS Part Number	Rated Output (Watts)	Rated Output (VA)	Max Output (VA)	Surge Output	Tractor HP (Recommended)	Rated AC Voltages
UPPG-T-05K-SF	5.0 KW	6.0 KVA	5.5 KVA	6.5 KVA	14-20 HP	120/240/400V
UPPG-T-10K-SF	10 KW	12 KVA	11 KW	13.5 KVA	14-20HP	120/240/400V
UPPG-T-16K-SF	16 KW	20 KVA	17.6 KW	22 KVA	45 HP	120/240/400V



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Engine Control Module

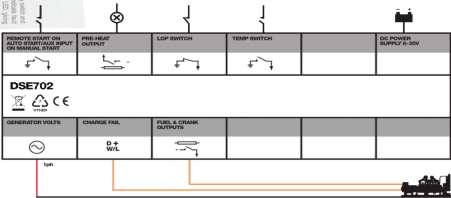
Automatic start for un-attended applications

Automatic start panels can be fitted to most electric start motors. Panels will start a generator or pump based on conditional input (low battery voltage, water level, etc) and will run until the condition is no longer valid.

When ordering, you will require the start panel for your type of engine and additionally, the module you intend to use as a conditional - ie. voltage controlled switch, or water level switch.



UPS Part Number	Description
UPPGA-701K-AS	Start Panel Only
UPPGA-702K-AS	Start Panel with Hobbs meter
UPPGA-VCS1	Voltage Controlled Switch



Diesel Generators

With Subaru OEM power



SUBARU

Our small diesel generators are made with high quality Subaru OEM engines ensuring trouble-free long life service. Generators are available with wheels or without. Tool kits are included for easy maintenance.

All electric start diesel generators can be fitted with our automatic start panels.

UPS Part Number	Frame Style	Rated Output	Max Output	Rated AC Voltages
UPPG-D-020-BO	Open Frame	2.0 KW	2.2 KW	120V / 240V
UPPG-D-035-BO	Open Frame	3.5 KW	4.0 KW	120V / 240V
UPPG-D-050-BO	Open Frame	5.0 KW	5.5 KW	120V / 240V
UPPG-D-060-BO	Open Frame	6.0 KW	7.0 KW	120V / 240V
UPPG-D-100-BO	Open Frame	10 KW	12 KW	120V / 240V
UPPG-D-050-BI	Enclosed Silent	5.0 KW	5.5 KW	120V / 240V
UPPG-D-060-BI	Enclosed Silent	6.0 KW	7.0 KVA	120V / 240V



60kW and 80kW Diesel Gensets

Reliability at an affordable price



Based on the industry leading Cummins turbo diesel engine platform and Stamford Power Systems, our branded 60kW and 80kW skid mounted generators deliver dependable emergency power in single or 3 phase output.

Stamford Power Systems products meet the highest standards in materials and workmanship, with every stage of production undertaken in accordance with international standards. The quality of Stamford products meet the needs of customers providing high quality solutions that have a proven track record of working in extreme operating, production, or climatic conditions.



Engine Model
Engine Type
Displacement
Bore*Stroke(mm)
Net Weight (with flywheel & alternator)
Overall Dimension(L*W*H)

Fuel System

Aspiration
Governor Rate
Electrical System(Starter Motor/Alternator)
Lowest Starting Temp without auxiliary heat
Engine Cooling Fluid Volume

Rated Power/Speed
Torque @ Rated Power
Standby Power/Speed
Torque @ Standby Power
Fuel Consumption @ Rated Power
Fuel Consumption @ Standby Power
Idle Speed

60kW

4BTA3.9-G11
4 Cylinders in Line
3.9 L
350 Kg
867mm*544mm*988mm

P Type Pump

GAC Electronic Governor
Turbocharged & Intercooled
≤3%
12V or 24VDC
-12□
7.9 L

70kW(93HP)@1500 rpm
318 N.m @ 1500 rpm
80kW(107HP)@1500 rpm
350 N.m @ 1500 rpm
212g/Kw.h
215g/Kw.h

80kW

6BTA5.9-G2
6 Cylinders in Line
5.9 L
102 * 120
453Kg
1110mm*750mm*988mm

BYC PB Pump

GAC Electronic Governor
Turbocharged & Intercooled
≤5%
12V or 24VDC
-12□
10 L

106 kW/142HP @ 1500 rpm
675 N.m @ 1500 rpm
116kW/155HP @ 1500rpm
739 N.m @ 1500 rpm
211g/Kw.h
212g/Kw.h



SMARTGEN Control Panel

HGM6100U series automatic generator controller. Integrated digital automatic control and monitoring system is designed to keep the genset operating at maximum efficiency. With the optional data connection, the generator can be remotely monitored for alarm and engine status and fuel level as well as started or stopped. Available data includes voltage, current, frequency, power parameters and engine status. Automatic shutdown on low oil pressure or other abnormality.

Genset controller includes a bright, scratch resistant LCD display with optional language interface including English, Spanish, German and French. Simple and intuitive controls provide an easy to understand management system for reliable long term operation. Control system data sheet is available upon request.



SmartGen
ideas for power

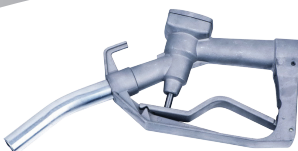
Automatic Transfer Switch

System control can monitor mains power and automatically start the generator if a mains failure is detected.



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Fuel Transfer Equipment



Fuel Nozzles – Flow Rate 60L/min (15.8 Gallons)

Part Number	Description	Inlet Size	Max Working Pressure	
			Bar	PSI
UPBIO-NOZ-CPA	Automatic Pump Nozzle – Aluminum/Plastic	3/4" BSPF	3.5	50
UPBIO-NOZ-BMA	Manual Pump Nozzle – Aluminum	3/4" BSPF	3.5	50
UPBIO-NOZ-BPA	Manual Pump Nozzle – Nylon	18mm Tail	2	29



Fuel Transfer Pumps – Available as 12/24VDC or 120VAC

Part Number	Description	Capacity Per Minute		Max Suction		Max Lift	
		Liters	Gallons	Meters	Feet	Meters	Feet
UPBIO-DTP-AC-60LM	AC Diesel Transfer Pump 1"	60	15.8	5	16.4	25	82
UPBIO-DTP-AC-70LM	AC Diesel Transfer Pump 1"	70	18.5	2	6.6	20	65.5
UPBIO-DTP-DC-40LMA	DC Diesel Transfer Pump 1"	40	10.5	2	6.6	10	32.8
UPBIO-DTP-DC-40LMB	DC Diesel Transfer Pump 3/4"	40	10	2	6.6	10	32.8
UPBIO-DTP-DC-75LM	DC Diesel Transfer Pump 1"	75	18.5	2	6.6	20	65.6

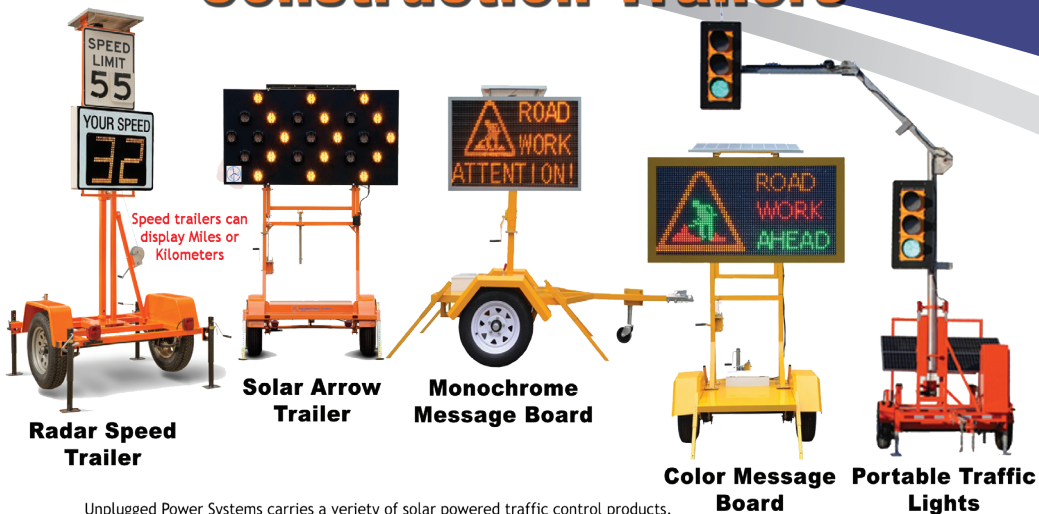


Fuel Transfer Pump Stations

Part Number	Description	Capacity Per Minute	
		Liters	Gallons
UPBIO-DTS-12V-15L	12/24V DC Transfer Pump	40	10.5
	– Automatic Nozzle – Integrated Flow Meter – Inlet/Outlet size: 1" – 2m Suction Hose – 4M Delivery Hose – Max Suction: 2M (6.6ft) – Max Lift: 10M (32.8ft)		
UPBIO-DTS-110V-43L	110v Diesel Oil Transfer Pump	43.3	11.4
	– Automatic Nozzle – Integrated Flow Meter – Inlet/Outlet size: 1" – 2m Suction Hose – 4M Delivery Hose – Max Suction: 2M (6.6ft) – Max Lift: 20M (65.6ft)		
UPBIO-DTS-110V-46L	110v Diesel Oil Transfer Pump	46.6	12.3
	– Automatic Nozzle – Integrated Flow Meter – Inlet/Outlet size: 1" – 2m Suction Hose – 4M Delivery Hose – Max Suction: 2M (6.6ft) – Max Lift: 25M (82ft)		



Construction Trailers



Unplugged Power Systems carries a variety of solar powered traffic control products. Included in this lineup are radar speed control trailers, flashing arrow lights, monochrome and full color message boards, and portable traffic light systems.

Traffic control trailers are proven to increase the safety of any construction site. Solar powered products provide this measure of safety without the constant refueling requirements typical of generator based products.

Solar powered traffic light trailers are connected via radio links. No running of wire required.

LED Flashers



Solar LED flashing lights are available in amber or red for pole mounted use. As a proven awareness and traffic calming device, these devices will make any intersection safer by drawing attention to stop signs or speed limit changes.

Truck Mounted Arrows

LED-Based arrow boards are available for low power draw vehicle mounted safety equipment.



Questions? Call Us Today!

1-877-4-WND-PWR
(1-877-496-3797)

Pole Mounted Radar Speed Signs



Stationary pole-mounted radar devices have been shown to reduce the speed of passing vehicles by way of driver feedback. It's a great fit for school zones and residential areas.

LED Barricade Lights



Versatile self-contained LED barricade lights have built-in solar panels and batteries to provide years of trouble free service.



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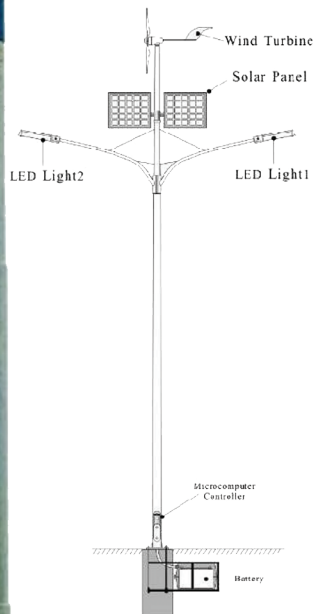
Solar and Wind Powered Street and Parking Lot Lights

LED street lights that are self powered. Lights do not require traditional underground wiring making placement is much more flexible. Contact us for more details.



Unplugged Power Systems
The Other Power Company.ca
 200 Millennium Blvd, Moncton NB
 Canada E1E 2G7

To:



Call Us Today!

1-877-4-WND-PWR

(1-877-496-3797)

Sales@TheOtherPowerCompany.ca