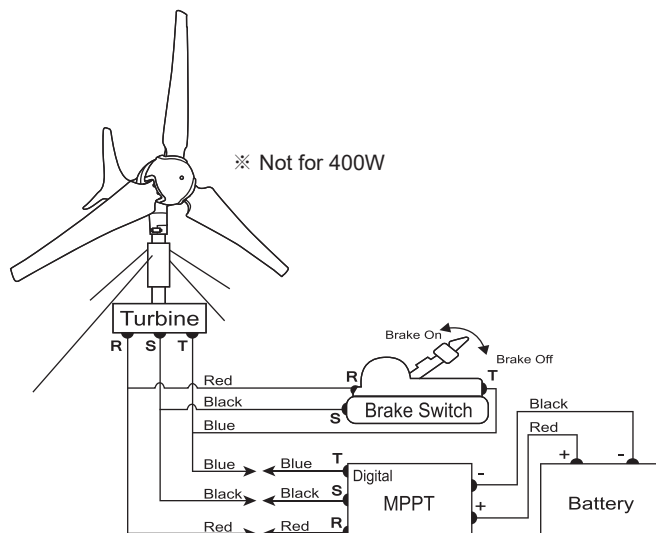


400W / 600W / 1000W / 1500W DIY Wind Turbine

Features

- **Producing power at remote sites**
Where the utility grid is not available
- **Hybrid system**
Combination of solar & wind power
- **Low-Power applications**
Lighting, pumping water, charging batteries etc.



Item NO.	DB-400	DB-600 Land	DS-600 Marine	DS-1000	DA-1500
Rated speed	14 M/S	12.5 M/S	12.5 M/S	14 M/S	14 M/S
Rated power	400W	600W	600W	1000W	1500W
Voltage with MPPT	12V	12V and 24V	12V and 24V	24V or 48V	24V
Rotor diameter	1.22M	1.3M	1.3M	1.7M	1.7M
Cut-in wind speed	3 M/S (6.7 MPH)	2 M/S (4.5 MPH)	2 M/S (4.5 MPH)	2.5 m/s	2.5 M/S (5.6 MPH)
Survival wind speed	50 M/S (110 MPH)	50 M/S (110 MPH)	50 M/S (110 MPH)	50 M/S (110 MPH)	50 M/S (110 MPH)
Number of blades	3	3	3	3	3
Blade material	Glass Fiber + PP	Glass Fiber + PP	Glass Fiber + PP	Glass Fiber + PP	Glass Fiber + PP
Suggested battery capacity	>50 A/HR	>100 A/HR	>100 A/HR	>200 A/HR	>200 A/HR
Weight (KG)	7.6	9	9	15	15
MPPT	Built-in	External (included)	External (included)	External (included)	External (included)

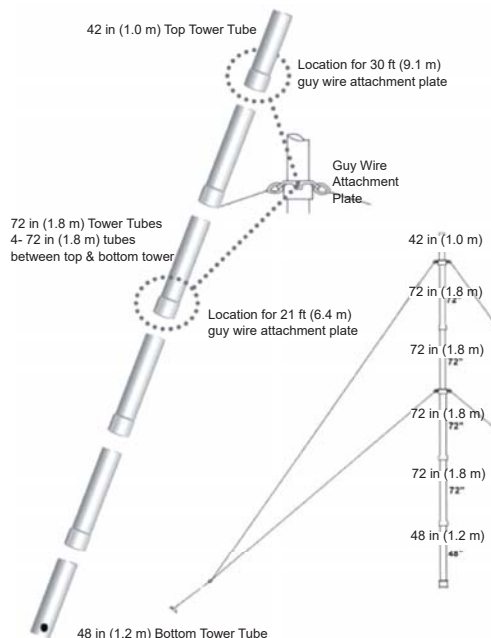
MPPT Charge Controller

*MPPT : Maximum Power Point Tracking



Tower kit For Wind Turbine

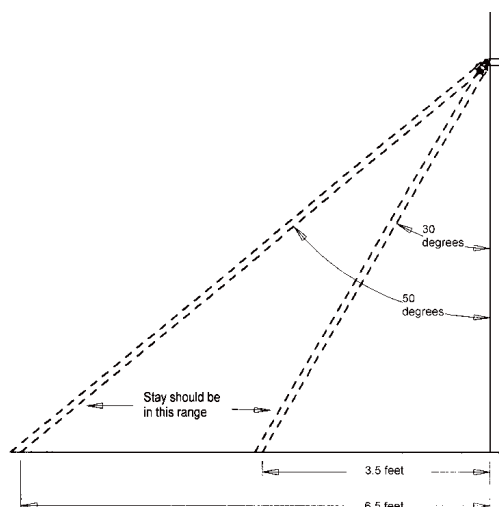
FOR LAND (10M)



1. Tower Base x 1
2. 21FT Guy Wire Set x 1
3. 30FT Guy Wire Set x 1
4. M10 x 65MM Bolt x 1
5. M10 Locknut x 1
6. Cable Thimbles x 8
7. Cable Clamps x 16
8. Tower Base Earth Spikes x 4
9. Arrowhead Earth Anchors x 4
10. Earth Anchor Driving Rod x 1
11. 4.76CM x 1.8M Tower Tubes x 4
12. 4.76CM x 1.2M Tower Tubes x 1
13. 4.76CM x 1.0M Tower Tubes x 1

FOR BOAT (2.7M)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Tower Base x 1 2. 21FT Guy Wire Set x 1 3. 30FT Guy Wire Set x 1 4. M10 x 65MM Bolt x 1 5. M10 Locknut x 1 6. Cable Thimbles x 8 7. Cable Clamps x 16 | <ol style="list-style-type: none"> 8. Tower Base Earth Spikes x 4 9. Arrowhead Earth Anchors x 4 10. Earth Anchor Driving Rod x 1 11. 4.76CM x 1.8M Tower Tubes x 4 12. 4.76CM x 1.2M Tower Tubes x 1 13. 4.76CM x 1.0M Tower Tubes x 1 |
|--|---|

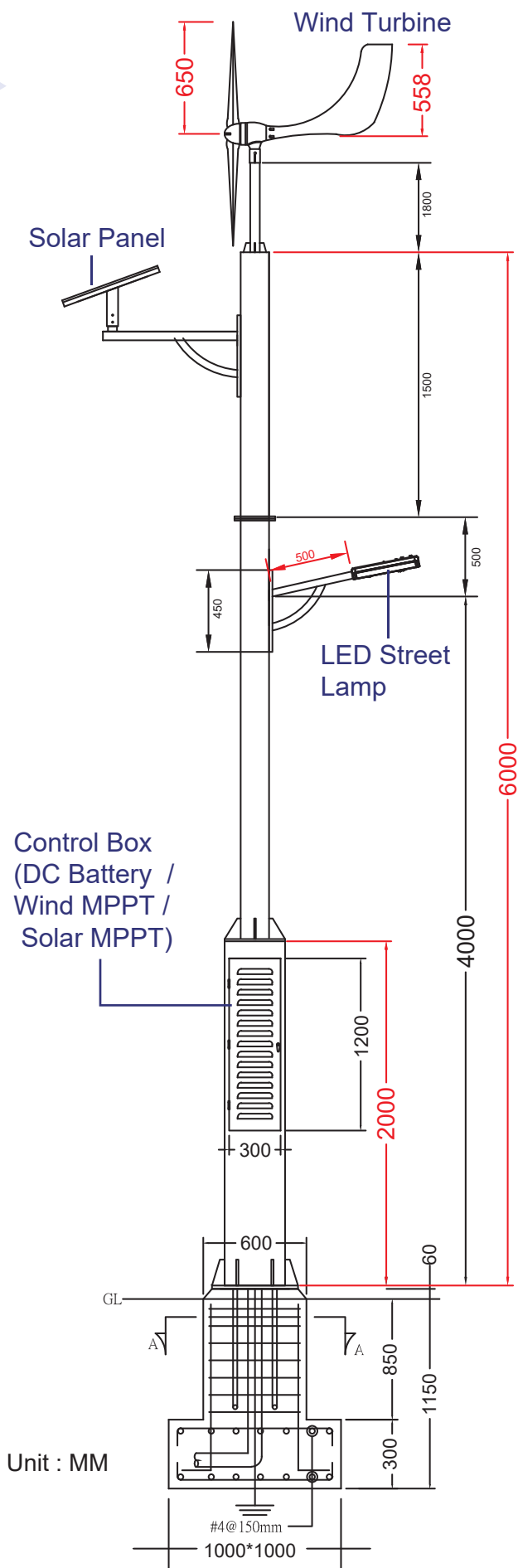


FOR LAND (2.65M)

1. Ground Nail x 8
2. Stud x 8
3. Spacer x 4
4. Nut x 4
5. Hex Screw 70L x 4
6. Hex Screw 30L x 4
7. Metal Base x 1
8. Metal Frame A x 4
9. Metal Frame B x 4
10. Metal Pole (top) x 1
11. Metal Pole (bottom) x 1
12. Metal Frame C (short) x 2
13. Metal Frame D (long) x 2



Hybrid Street Lamp System



Specifications

Solar Panel	
Rated power	250W
Open circuit voltage	37.52V
Short circuit current	8.63A
Max. power voltage	30.72V
Max. power current	8.14A
Module efficiency	15.27%
Solar cell efficiency	17.2%
Operating temperature	-40°C ~ +85°C
Weight (KG)	19.5
Dimension (MM)	1650 x 989 x 39

LED Street Lamp		
Rated power	60W	20W
Operating voltage	DC 12V ~ 24V	
Operating current	3.75A	1.45A
Color temperature	5000 K (3000 K Available)	
Output luminous flux	> 5100 lm	> 1200 lm
Color rendering index (CRI)	Ra ≥ 80	
Effective illuminated area (from 6m height)	>20M x 8M	
Life cycle	>30000 HRS	
Optical decline rate	3000 HRS <10%	
Illuminance as 4M high	73 LUX	47 LUX
Operating humidity (RH)	10 ~ 95%	
Operating temperature	-40°C ~ +50°C	
Weight (KG)	6.5	2.5
Dimension (MM)	4.4 x 23 x 12	23 x 7.5 x 27.8

Battery	
Nominal voltage	DC 12V
Capacity	75 A/HR x 2 (150 A/HR)
Life cycle (full discharge)	>200 TIMES
DIN type battery (electrolyte)	5.2L
Terminal type	B2
Operating temperature	-20°C ~ +50°C
Weight (KG)	26
Dimension (MM)	260 x 168 x 223

Solar MPPT Charge Controller

Rated power	200W
Rated input current	5A
Charging start voltage	DC 6V
Input voltage range	DC 6V - 50V
Output voltage	DC 12V
Max. charging current	16.66A
Max. charging efficiency	> 85%
Battery low shutdown	DC 11.5V ± 5%
Battery floating charge	DC 13.8V ± 5%
DC load current	Max.16A
DC load management	16 kinds
Operating temperature	-20°C ~ +40°C
Weight (KG)	1.7
Dimension (MM)	200 x 142 x 50



Wind Turbine

Item No.	DB-600	DA-1500
Rated speed	12.5 M/S	14 M/S
Rated power	600W	1500W
Voltage with MPPT	12V and 24V	24V
Rotor diameter	1.3 M	1.7 M
Cut-in wind speed	2 M/S (4.5 MPH)	2.5 M/S (5.6 MPH)
Survival wind speed	50 M/S (110 MPH)	50 M/S (110 MPH)
Number of blades	3	3
Blade material	Glass Fiber + PP	Glass Fiber + PP
Suggested battery capacity	>100 A/HR	>200 A/HR
Weight (KG)	9	15

Wind MPPT Charge Controller

Output power	12V / 24V Auto detect	24V
Input voltage range	5 ~ 75 VRMS	5 ~ 75 VRMS
Charging efficiency	> 97% ~ 99%	≥ 95%
Battery protection voltage	12V - 14.4V (Lead-acid batteries) or 15.8V (Deep-cycle batteries) 24V - 28.8V (Lead-acid batteries) or 30V (Deep-cycle batteries)	29.5±1V (Lead-acid batteries) or 31V±1V (Deep-cycle batteries)
Rated load current	Max. 35A	Max. 45A
Over-speed braking	≤ 1400 RPM	< 1000 RPM

General Info

Gross weight (KG)	350 - 400	Average wind speed	@ 6 M/S, 1500W/DAY
Solar	250W Panel + Solar MPPT 60Hz/50Hz	LED street lamp	5000K (3000K available)
		Weight (g)	82

1500W Power Station

Power Deliver to Wherever Your Go !

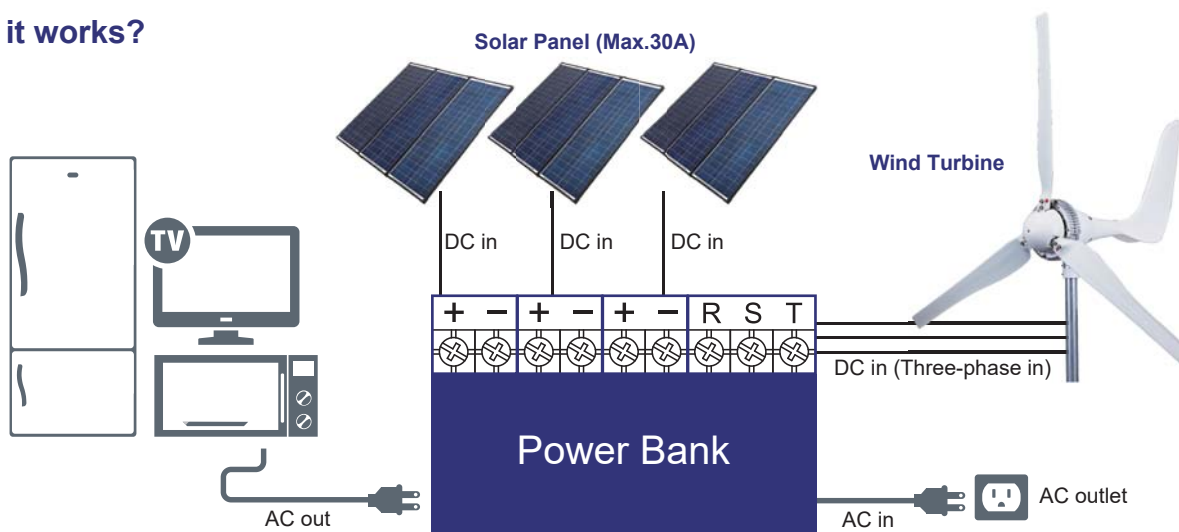
Features

- Use green energy whenever and wherever it's required
- Hybrid power from Wind, Sun and Power Grid
- Power source priority of green energy or power grid is selectable
- Transfer time is within 10 ms bypass
- To selectable : UPS (Uninterruptible Power Supply) or power saving

Important: The combination of loads cannot exceed 1440W.
Run-time will depend on the Amp-Hour rating of the batteries.



How it works?



Specifications

1500W Power Station			
Dimension (cm)	60(L) x 45 (W) x 58.5(H)	Weight (kg)	85 (Main case only)
Battery		AC Cable for Wind Turbine	
Nominal voltage	DC 12V		Tower to Turbine AWG#8 x 3 (10M)
Capacity	75 A/HR x 2 (150 A/HR)		
Life cycle (full discharge)	>200 Times		MPPT to DC AWG#8 x 2 (1M)
DIN type battery (electrolyte)	5.2L		
Terminal type	B2		
Operating temperature	-20°C ~ +50°C		
Weight (KG)	26		
Dimension (MM)	260 x 168 x 223		

DIN: The German Battery Standards

Wind Turbine		
Item No.	DB-600	DA-1500
Rated speed	12.5 M/S	14 M/S
Rated power	600W	1500W
Voltage with MPPT	12V and 24V	24V
Rotor diameter	1.3M	1.7M
Cut-in wind speed	2 M/S (4.5 MPH)	2.5 M/S (5.6 MPH)
Survival wind speed	50 M/S (110 MPH)	50 M/S (110 MPH)
Number of blades	3	3
Blade material	Glass Fiber + PP	Glass Fiber + PP
Suggested battery capacity	>100 A/HR	>200 A/HR
Weight (KG)	9	15

Wind MPPT Charge Controller		
Output power	12V / 24V Auto detect	24V
Input voltage range	5 ~ 75 VRMS	5 ~ 75 VRMS
Charging efficiency	> 97% ~ 99%	≥ 95%
Battery protection voltage	12V - 14.4V (Lead-acid batteries) or 15.8V (Deep-cycle batteries) 24V - 28.8V (Lead-acid batteries) or 30V (Deep-cycle batteries)	29.5±1V (Lead-acid batteries) or 31V±1V (Deep-cycle batteries)
Rated load current	Max. 35A	Max. 45A
Over-speed braking	≤ 1400 RPM	< 1000 RPM

1500W Pure Sine Wave Inverter		450W Solar Panel (150W x 3sets)	
Max. power	1500W	Rated power (3pcs)	150W
Surge power	3000W	One panel (50W) spec.	
AC output	110V 230V	Rated voltage	DC 12V
AC frequency	60Hz 50Hz	Current at max. power (Imp)	2.69A
Waveform	Pure Sine Wave (THD <3.0%)	Open circuit voltage (Voc)	22.03V
Transfer time	10 ms inverter ↔ BY PASS	Short circuit current (Isc)	2.85A
DC input	12V (10.5 ~ 15VDC)	Operating temperature	-40°C ~ +85°C
DC current	150A	Weight (KG / SET)	10.9
Efficiency	Up to 90%	Dimension (MM / SET)	925 x 330 x 25
AC charger	Charge current : 10A Battery charge voltage : 14.3V ± 4%	Solar Charger	
		Max. open circuit voltage	≤ 50V
		Charge current	Max. 16A
		Battery charge voltage	14.3V± 4%

- * Selectable output voltage/frequency
- * Low battery alarm and indicator
- * Fully digital controlled function

THD: Total Harmonic Distortion

350W / 1500W Hybrid Inverter



350W

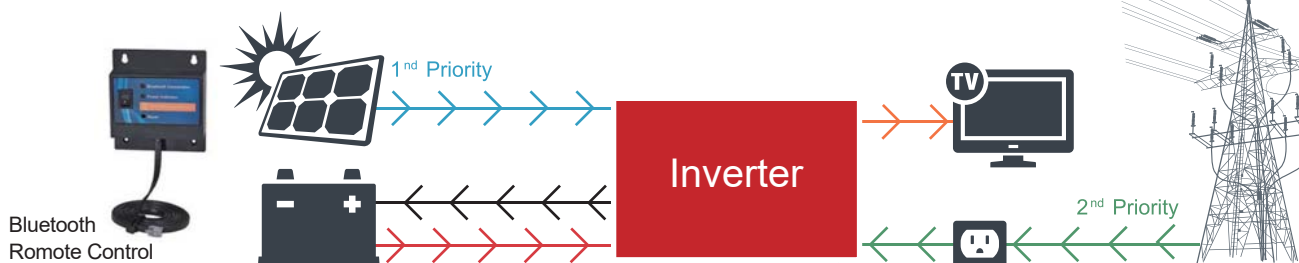


1500W



Features

- It can charge from either solar power or AC mains. The solar power is given priority.
- The power supply is controlled by the intelligent chip (MCU).
- 12 volt DC being converted to high-voltage DC power ends up as AC power.
- The cooling fan is thermally activated and turns on when the inverter becomes warm.
- Includes a USB port (5VDC/2.1A) used to charge phones, camera and other appliances.
- Press the AC/DC priority switch to input either AC or DC power.
- The AC mains have priority over the inverter and solar mode. (default setting)



Rated Power Output	UP-SLAD	UP-8B5N
Rated Power Output	350W Hybrid Inverter	1500W Hybrid Inverter
Rated Voltage Range	11-16VDC or 18-30VDC	
Low / High Voltage Protection	10.5±0.5VDC / 16.5±0.5VDC	
Over load Protection	360-420W	1650-1900W
Peak Power	700W	3000W
Output Wave form	Pure Sine Wave	
Solar Max. Charge Current	7±1A	16±1A
Solar Max. Input Voltage	≤ 25VDC	20-50VDC
Solar Max. Charge Voltage	16±1VDC / 32±1VDC	15±1VDC / 37±1VDC
AC Charge Current	5A	10A
Dimension (LxWxH)	24.5 x 18.0 x 7.5 CM	44 x 31.5 x 10CM
Weight (KG)	2.4	6.7

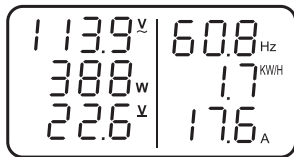
300W / 500W DIY GRID-TIE Inverter

Features

- Utility tied PV inverter with sinusoidal supply current
- High power conversion efficiency
- Low output current THD
- LCD display – system data
- Protections: Short circuit / Overload / Low voltage
High voltage / Islanding / Over temperature
- Approved by CE, FCC, UL1741, IEEE1547, CB
- Anti-islanding design
- Direct plug into wall outlets



LCD Display



V: AC Voltage Hz: Hertz
W: Watt KW/H: Kilowatt per hour
V: DC Voltage A: Ampere

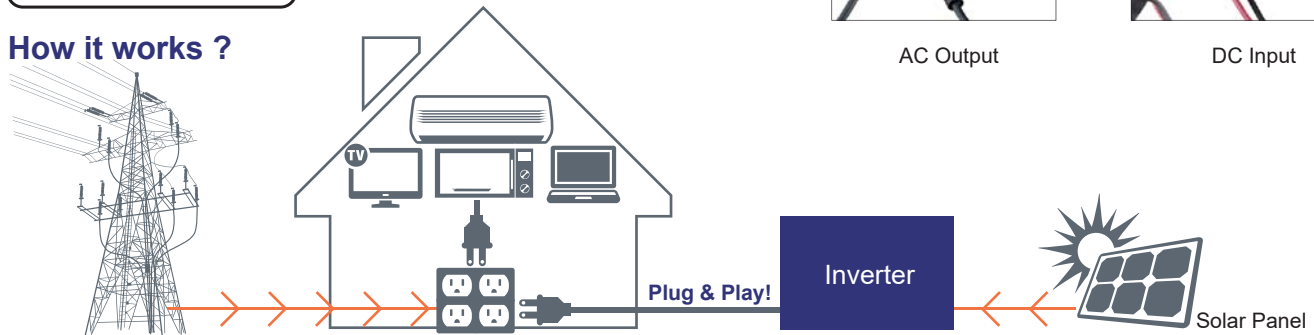


AC Output



DC Input

How it works ?



Item NO.	UP-8C2H		UP-8E2L		UP-8E2R		UP-8C2V	
Max. continuous watt	300W		500W		300W		500W	
DC input voltage range	24V(19-41V)	48V(37-63V)	24V(19-41V)	48V(37-63V)	24V(19-41V)	48V(37-63V)	24V(19-41V)	48V(37-63V)
DC input low voltage protection	19±0.5V	37±1V	19±0.5V	37±1V	19±0.5V	37±1V	19±0.5V	37±1V
No load current	≤0.1A							
DC input high voltage protection	41.5±0.4V	63.5±0.5V	41.5±0.4V	63.5±0.5V	41.5±0.4V	63.5±0.5V	41.5±0.4V	63.5±0.5V
Input fuse (outside)	20A x 1	10A x 1	40A x 1	20A x 1	20A x 1	10A x 1	40A x 1	20A x 1
DC input high connecting protection	Fuse							
AC output voltage range	120V (105.6-132V)				230V (184-264.5V)			
AC voltage frequency range	60±1.0 HZ				50±1.0 HZ			
AC output power factor (PF)	>0.9							
AC output total harmonic distortion	<5%							
Continuous output power	300±20W		500±30W		300±20W		500±30W	
Input voltage (VDC)	27.6±0.5	52±1.0	27.6±0.5	52±1.0	27.6±0.5	52±1.0	27.6±0.5	52±1.0
AC output fuse	250V / 10A x1							
Dimension (CM) / Weight (KG)	27 x18 x 8 / 1.7							

150W Solar 12V Power Generator Kit

Features

- Item No.:JSB1501201
- Eco-friendly
- Light, movable, easy-to-install
- MPPT ensures high efficiency of your solar system
- Charge battery directly or utilize AC power through inverter

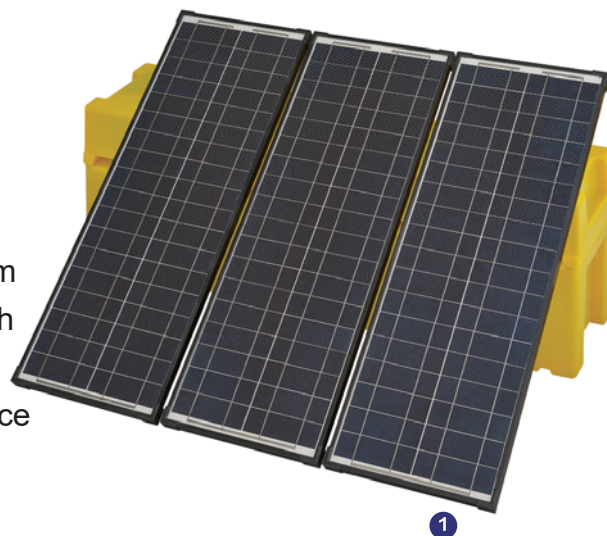
Yellow case can be used as storage box and frame holder

Perfect for

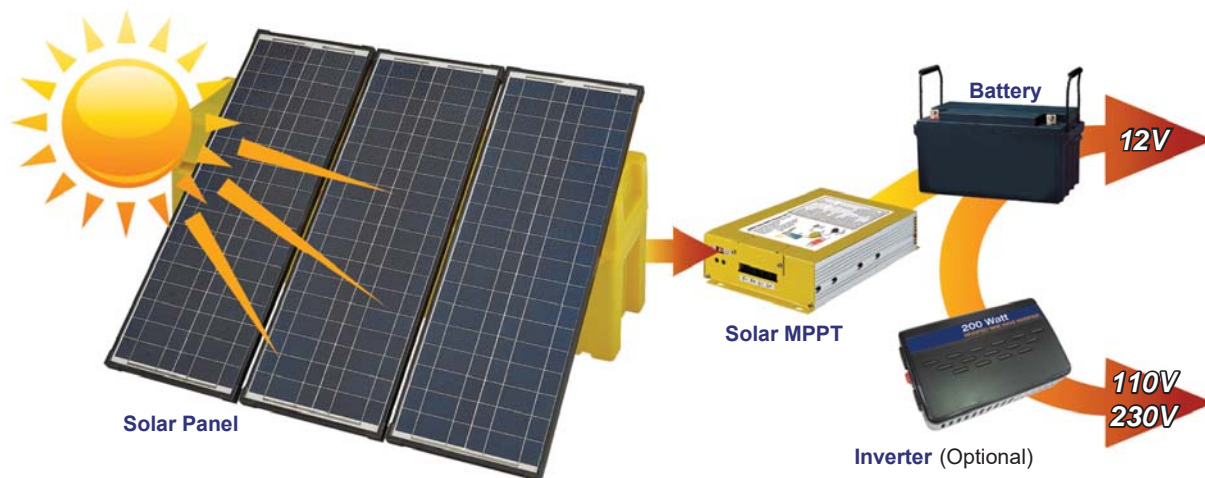


Includes

- 1 Solar panel : 50W Polycrystalline silicon solar panel x 3
Dimension 925 x 330 x 25 MM/SET
- 2 Storage case with standing function to mount solar panels
- 3 3 in 1 wire connectors :
All 3 solar panels can be connected in an easy fashion
- 4 Battery clamps extension cable & extended cable
- 5 L shape metal part (Large x4, Small x3), Screw x11
- 6 500W 12V solar MPPT (Maximum Power Point Tracking)
- 7 1000W inverter (Optional)



How Solar Works ?



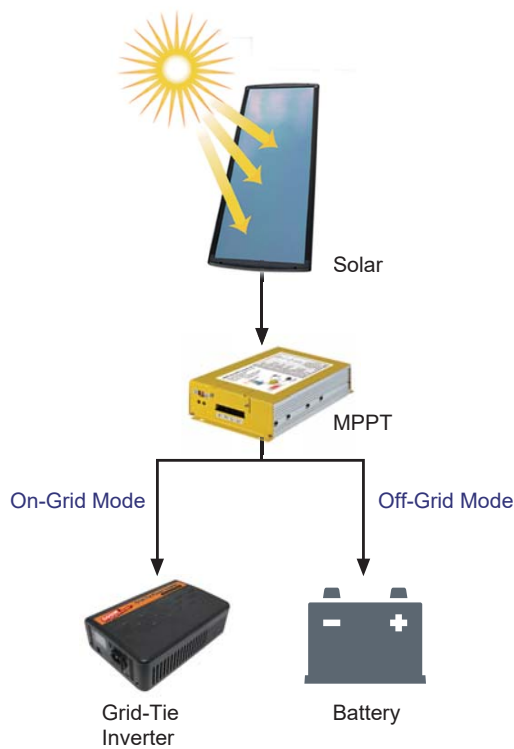
500W Solar ON-GRID / OFF-GRID MPPT Charger

Features

- MCU fully digital-controlled MPPT solar charger
- Protections : Short circuit / Overload / Low voltage / High voltage / Over temperature
- Large DC input voltage range
- Buck- boost conversion

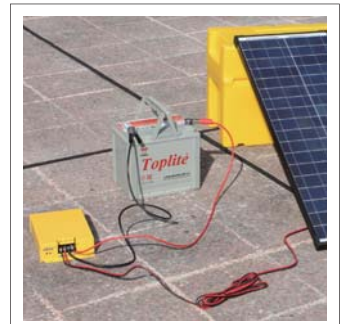
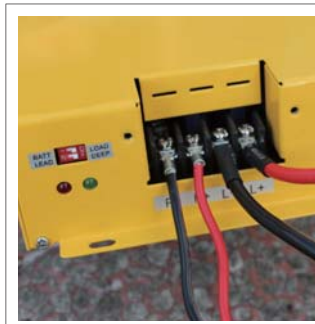


※ MPPT : Maximum Power Point Tracking



Item No.	UP-5P43	UP-5P33
Input voltage	12V	24V
Input voltage range	DC 10V~43V	DC 15V~68V
Rated input voltage	DC 36V	DC 57V
Stand by current	≤0.1A	≤0.1A
Rated input current	13A	9A
Input high voltage protection	≤44V	≤68V
Recommended photovoltaics devices open circuit voltage	≥44V	≥68V
Output voltage range	DC 9V~16V	DC 18V~32V
Output low voltage protection	9V	18V
Maximum outputting current	28A	25A
MPPT efficiency	92%	94%
Over-temperature protection		70°C
Restore operating temperature		55°C
Dimension (MM)	222 x 143 x 51	
Weight (KG)	1.42	

Installation Example



Power Walker

Features

- Easy and portable type
- Max. AC output : 150W
- USB port : 2.1 A x 2
- High power LED light
- Battery level indicator
- Battery replacement



USB Port



High Power LED Light



Charge In



AC/DC Adapter



Battery Replacement

Example



Item No.	UP-5HAA	UP-5H1A
Output voltage	AC 100 V / 110 V / 120 V / 220 V (According to different countries) USB DC 5.0 V / 2.1A	
Output wave	Modified sine wave	
Output power	150W (Continuously) , 300W (Peak)	
Charging time	3 - 4 hours (Charge in car)	
LED light	White light x 3 LED (About 70 cd)	
Battery charging indicator	Green light	
Battery type	Lead-acid	Lithium iron
Battery capacity	12 V / 9 AH	12 V / 17.5 AH
Approx. weight (KG)	4 .1	2.3
Dimension (CM)	27(L) X 10(W) X 22 (H)	

Smart Battery Charger


Features

Item No.	UP-A1A3
AC input rated voltage	100V~240V
AC input frequency	47HZ~63HZ
AC input current	1.5A / 0.75A
AC input power	97W
AC input quiescent current	0.05A
DC output voltage range	>6V
DC output current	5A ± 10%
DC output power	75W
Max. DC charge current	5A
Max. DC charge voltage	14.7V ± 0.3V
DC floating voltage	13.65V ± 0.2V
Total charge hours	12 HRS ± 30 MIN
Max. floating charge hours	1HR±15 MIN



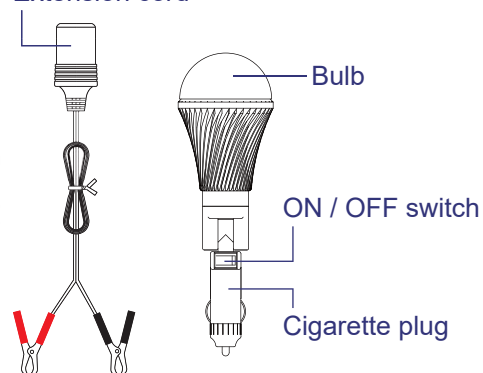
▶ Direct Current (DC) BULB

Features

- Stanley LED used 
- Applicable for 12V and 24V
- Non-polarized design
- Made for stand-alone solar and wind
- Warm white for indoor and outdoor use
- No hazard of electric shock



Extension cord



Item No.	DD-3XWM1R
Input voltage range	DC 12 - 28V
Power consumption	Max. 4.5W
Color temperature	3000K
Luminous flux	250 LM ± 10%