

Solar Power Bank



AVS-W1600



AVS-W800



AVS-W500

If you're wondering about how to store the power your solar panels have been collecting then look no further! Beyond Solar carries top of the line Power Bank Systems that allow you to store all that energy for emergency backups and more! These power banks are super easy to use, all power sockets are located in the front of the box with convenient access and close to monitoring systems!

- Easy Access Front Connections
- LCD Monitoring Screen
- Inverter That Allows Safe Powering of Most All Appliances
- Input Power 110-220VAC 50-60Hz
- Ensure Your Systems Keep Functioning Even During Power Outages
- Keep Security Systems Or Lighting Going During Nighttime Hours
- Small, Portable and Convenient Power Storage



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Specifications

Model #	DC USB Max Output	DC Outlet Max Output	AC Power Max Output	Solar Panel	Battery Capacity	Battery Type	Battery Voltage	PV Type
AVS-W500	5V 500mA	1A/One Route/12V	500W	100W	100AH	Gel, AGM	12V	SLP100-12
AVS-W800	5V 500mA	1A/One Route/12V	800W	100W	200AH	Gel, AGM	12V	SLP100-12 (1-2Pcs)
AVS-W1600	5V 600mA	1A/One Route/12V	1600W	100W	(X2) 200AH	Gel, AGM	12V	SLP100-12 (2-4Pcs)

Quiet, Portable Power Storage. The Solar Power Bank Generator allows you to live off the grid, or through an outage without the noise and fumes of traditional backup generators. Connect all your daily appliances or lighting solutions.



\$0 Power - \$0 Trenching Cost - \$0 Cabling



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W500 Specifications

DC Controller	
Rate Voltage	12V
Max. PV Charging Current	10A
Max. PV Input Voltage	≤ 25V
High-Voltage Disconnection	14 ± 0.2V
Low-Voltage Disconnection	10.5V ± 0.2V
Low-Voltage Reconnection	11.5V ± 0.2V
Product Dimensions	11.81" x 7.08" x 21.65"
DC Output	
USB Max Output Current/Voltage	5V 500mA
DC Outlet Max. Output Current/Voltage	1A/One Route/12V
Inverter	
Max. AC Output Power	≤ 500W
Output Wave	Modified Wave
Output Voltage/Frequency	AC220V ± 10% 50Hz ± 2Hz
Self-Consumption	≤ 1.5%
Low-Voltage Disconnection	10.0 ± 0.5V
High-Voltage Disconnection	15.5V ± 0.5V
Low-Voltage Alarm	10.5V ± 0.3V
Solar Panel	
Type	SLP100-12
Peak Power Pm (W)	100W
Open Circuit Voltage (Voc)	21.6V
Max. Power Voltage (Vmp)	17.2V
Short Circuit Current (Isc)	6.46A
Max. Power Current (Imp)	5.81A
Cable	2 x 1.5mm2 x 5M
Battery	
Battery Types	Gel, AGM
Battery Capacity	100Ah Recommended
Voltage	12V



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AVS-W800

W800 Specifications

DC Controller	
Rate Voltage	12V
Max. PV Charging Current	10A
Max. PV Input Voltage	≤ 25V
High-Voltage Disconnection	13.7 ± 0.2V
Low-Voltage Disconnection	10.7V ± 0.2V
Low-Voltage Reconnection	12.6V ± 0.2V
Product Dimensions	18.11" x 9.44" x 21.65"
AC Charger	
Max. AC Charging Current	8A
Charging Starting Voltage	11.5V ± 0.2V
Charging Stopping Voltage	13.7V ± 0.2V
DC Output	
USB Max Output Current/Voltage	5V 500mA
DC Outlet Max. Output Current/Voltage	1A/One Route/12V
Inverter	
Max. AC Output Power	≤ 800W
Output Wave	Pure Sine Wave
Output Voltage/Frequency	AC220V ± 10% 50Hz ± 2Hz
Self-Consumption	≤ 1.5%
Low-Voltage Disconnection	10.0 ± 0.5V
High-Voltage Disconnection	15.5V ± 0.5V
Low-Voltage Alarm	10.5V ± 0.3V
Solar Panel	
Type	SLP100-12 (1-2Pcs)
Peak Power Pm (W)	100W
Open Circuit Voltage (Voc)	21.6V
Max. Power Voltage (Vmp)	17.2V
Short Circuit Current (Isc)	6.46A
Max. Power Current (Imp)	5.81A
Cable	2 x 1.5mm ² x 5M
Battery	
Battery Types	Gel, AGM
Battery Capacity	200Ah Recommended
Voltage	12V



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W1600 Specifications

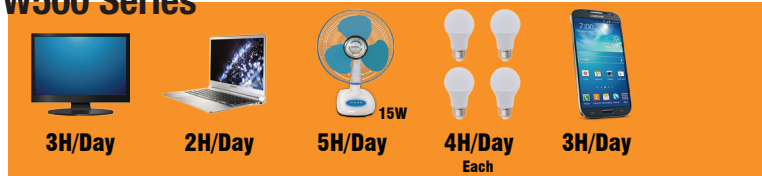
DC Controller	
Rate Voltage	24V
Max. PV Charging Current	30A
Max. PV Input Voltage	≤ 25V
High-Voltage Disconnection	24.7 ± 0.2V
Low-Voltage Disconnection	22.7V ± 0.2V
Low-Voltage Reconnection	24.6V ± 0.2V
Product Dimensions	23.62" x 21.65" x 16.53"
AC Charger	
Max. AC Charging Current	8A
Charging Starting Voltage	11.5V ± 0.2V
Charging Stopping Voltage	13.7V ± 0.2V
DC Output	
USB Max Output Current/Voltage	5V 600mA
DC Outlet Max. Output Current/Voltage	1A/One Route/12V
Inverter	
Max. AC Output Power	≤ 1600W
Output Wave	Pure Sine Wave
Output Voltage/Frequency	AC220V ± 10% 50Hz ± 2Hz
Self-Consumption	≤ 1.5%
Low-Voltage Disconnection	10.0 ± 0.5V
High-Voltage Disconnection	15.5V ± 0.5V
Low-Voltage Alarm	10.5V ± 0.3V
Solar Panel	
Type	SLP100-12 (2-4Pcs)
Peak Power Pm (W)	100W
Open Circuit Voltage (Voc)	21.6V
Max. Power Voltage (Vmp)	17.2V
Short Circuit Current (Isc)	6.46A
Max. Power Current (Imp)	5.81A
Cable	2 x 1.5mm ² x 5M
Battery	
Battery Types	Gel, AGM
Battery Capacity	(x2) 200Ah Recommended
Voltage	12V



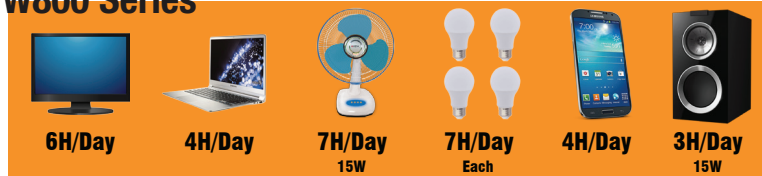
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Run Times

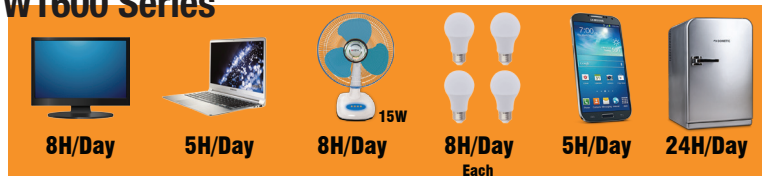
W500 Series



W800 Series



W1600 Series



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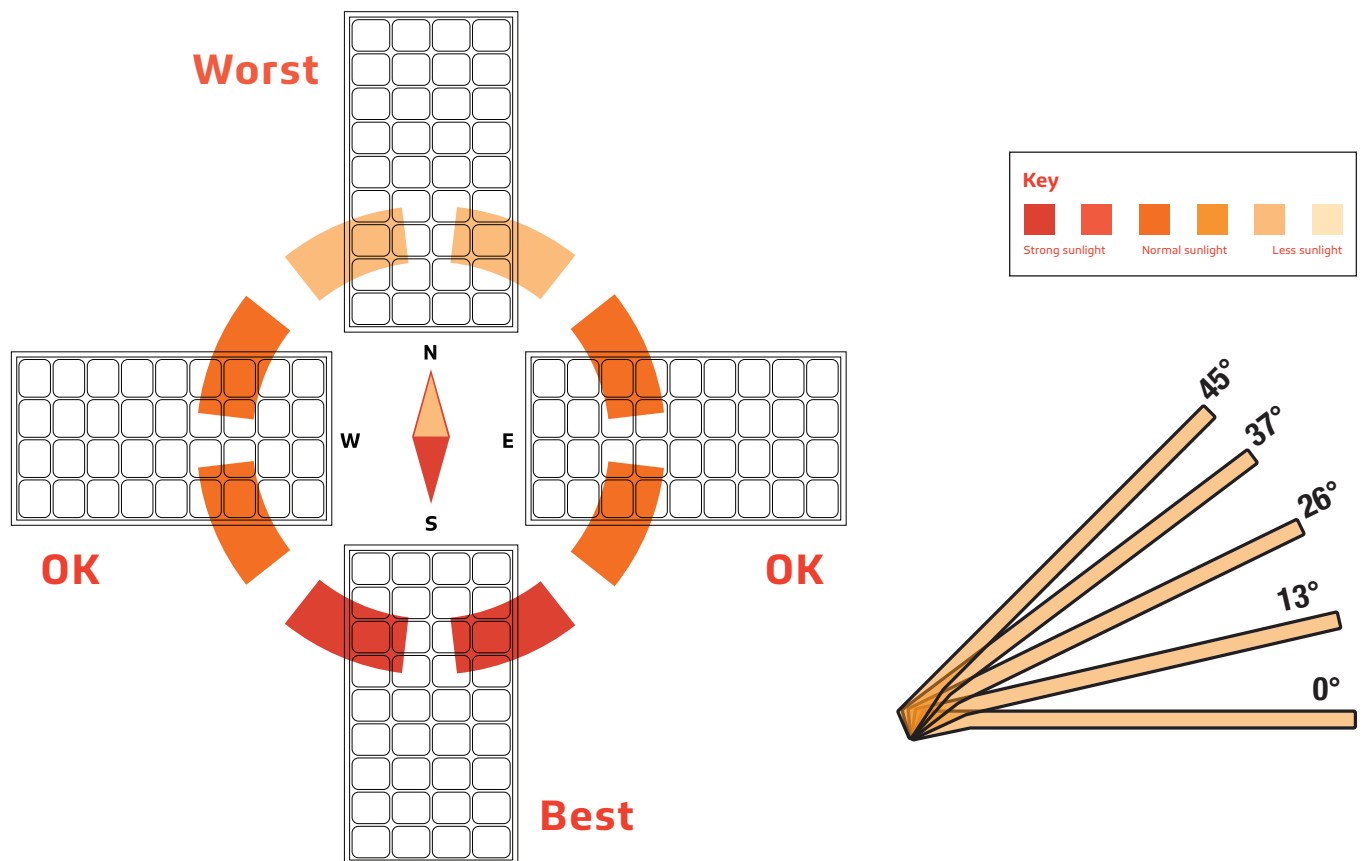
Optimum Panel Orientation

The Solar charge in a battery pack won't last forever. The off-grid system relies on stored solar energy for autonomy. Angling your solar panels properly can boost the power intake of your solar lighting system. You want to angle your solar panels at a tilt based on the area's latitude.

Tip for Maximum Power

You can increase the tilt 15° in the winter or decrease 15° in the summer. In this way you can get the maximum sunlight to recharge the battery.

Best Facing Direction of Solar Panel

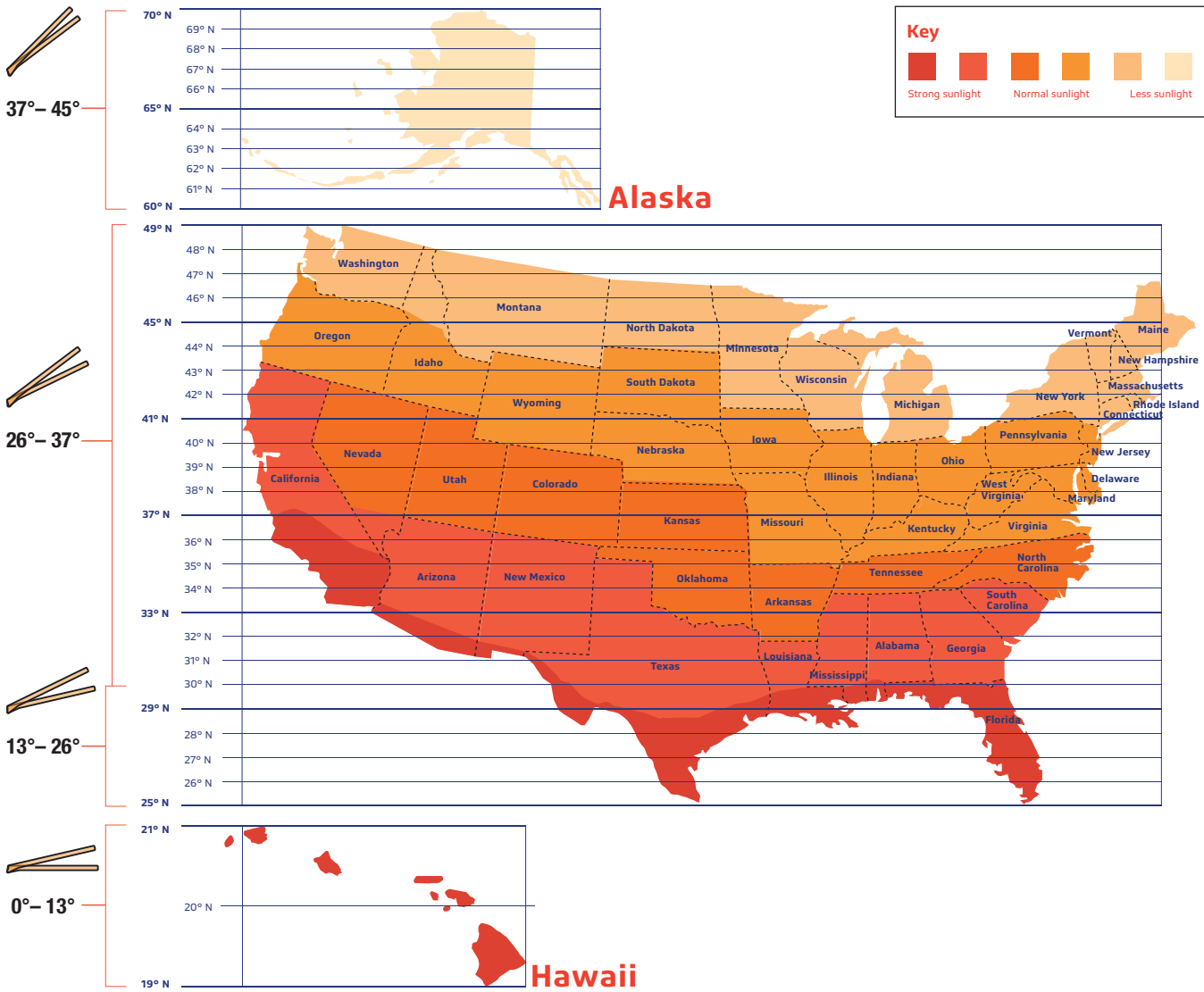


The area will dictate the installation of the fixtures and will sometimes prevent the lights from facing south. Panels facing West & East won't get as much light as Southern facing panels, but will still collect a good amount of sunlight. A North facing panel also works, but it will take longer to charge than any other direction. This would mean that the solar charge will be less optimal if installations are facing North.



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Optimum Panel Orientation



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