DATA SHEET

SOLAR POWER KITS
OFF-GRID POWER SOLUTIONS

TURN-KEY SOLUTIONS FOR WIRELESS, SECURITY CAMERAS, TELECOM, ACCESS CONTROL, NVR AND MANY OTHER APPLICATIONS WHEN COMMERCIAL POWER IS UNAVAILABLE

SOLAR POWER SOLUTIONS

SOLAR POWER PRODUCT ADVANTAGE

The Ascendance Wireless Solar Kits offer a turn key solution to provide reliable power for remote applications, eliminating expensive utility power investments. These systems are pre-wired to minimize installation time and wiring errors.

Pre-configured systems can be selected to minimize purchasing and specification efforts, and they are constructed from quality components to maximize reliability and system life.

TECHNICAL SOLUTION OVERVIEW

The Solar Power Kits are installed with devices and equipment in remote locations (e.g. wireless radios, telecom, video surveillance. Access control, etc.) for applications requiring DC or AC power.

The kits include the PV Module (panel), weatherproof enclosure, charge controller, circuit protection distribution panel, wiring harness, battery cables and comes fully assembled.

The solar panels are made of high efficiency polycrystalline silicon modules capable of weathering any environment. Multicrystalline modules offer high efficiency and have a small footprint and are more compact than other solar technologies. The fully encapsulated panel resists harsh weather conditions (hail, rain, wind, etc.) and have a 25 year expected life. They are especially well suited for sunny locations.

Charge Controllers manage your power requirements even in the harshest conditions. Charge Controllers are used to channel the sun's energy into your equipment when energy is needed, or to charge the battery when energy is not required.

The Circuit Protection components will ensure the protection and integrity of your equipment in the field. The factory-sealed circuit protectors offer a sound, proven and reliable design.

The Solar kits are installed in weatherproof enclosures that withstand harsh weather conditions such as rain, dust, ice, etc. and are capable of high wind loads. These aluminum enclosures provide superior corrosion resistance and heat dissipation and their light weight combined with strength and durability make them ideal cabinets for applications throughout many industries. They perform well in harsh, high heat, high wear environments.

The enclosures are available to hold 1, 2 or 3 Group 27 Batteries.

HIGHLIGHTS

- OFF-GRID POWER SOLUTIONS
- ENGINEERED TO POWER MULTIPLE DEVICE TYPES
- TURN-KEY SOLUTION
- RELIABLE POWER DELIVERY
- DESIGNED BY GEOGRAPHIC AREA
- FLEXIBLE CONFIG: PWR, VOLT, AC/DC, BAT, ETC.
- ROOF, WALL OR POLE MOUNT PANELS
- INCLUDES PV PANELS
- POLE, WALL OR GROUND MOUNT ENCLOSURE

MATURE TECHNOLOGY

Solar power is a mature technology which has been used for over 30 years in many applications requiring safe/reliable power sources.

EASY INSTALLATION

Each kit is designed specifically for your unique application and environment and include all the components, less the battery. In addition, the kits are fully assembled to streamline installation time and costs.

made in USA

RoHS

SOLAR POWER SPECIFICATIONS

ENCLOSURE OPTIONS

Enclosure BBA-1	Holds 1 Group 27 Battery: NEMA 3R 0.090 Aluminum Mill finish - 18"H x 16.25"W x 10.25"D Pole, banding, or wall mount. Double flanged door opening. Screened louvers on door for ventilation SST hinge and hardware. Pad lockable draw hatch. Griswold gasket
Enclosure BBA-2	Holds 2 Group 27 Batteries: NEMA 3R 0.090 Aluminum Mill finish - 18.125"H x 18"W x 18"D Pole, banding, or wall mount. Double flanged door opening. Screened louvers on door for ventilation SST hinge and hardware. Pad lockable draw hatch. Griswold gasket
Enclosure BBA-3	Holds 3 Group 27 Batteries: NEMA 3R 0.090 Aluminum Mill finish - 18.25"H x 25.25"W x 18.25"D Pole, banding, or wall mount. Double flanged door opening. Screened louvers on door for ventilation SST hinge and hardware. Pad lockable draw hatch. Griswold gasket

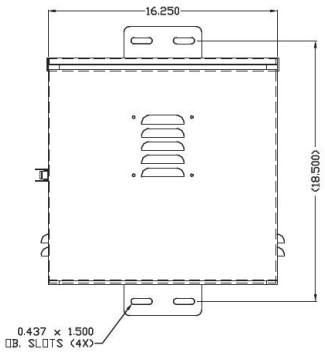
PV PANEL

Type	85W PV Module
Dimensions	1.38"D x 21.5"W x 47"H
Connection	MC4

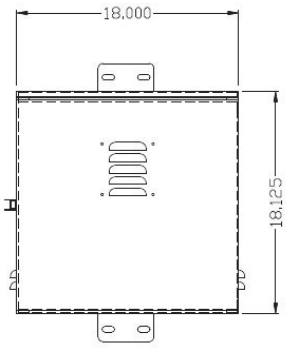
CHARGE CONTROLLER

Peak Efficiency	97.50%
Nominal Battery Voltage	12 or 24 volts
Max. Battery Current	15 amps
Battery Voltage Range	7-36 volts
Max. PV Open Circuit Voltage	75 volts
Nominal Max. PV Input	12 volt battery 200 Watts
Output Rating	15 amps load control
Self Consumption	35 milliamps
Transient Surge Protection	4 x 1500 Watts
Temperature	–40°C to +60°C
Humidity	100% non-condensing
Tropicalization	Epoxy encapsulation conformal coating Marine rated terminals
Electronic protections	PV: Overload, Short Circuit, High Voltage, Load: Overload, Short Circuit, Reverse Polarity: Battery, PV and Load, Lightning and Transient Surges, High Temperature , Reverse Current at Night
Battery Types	Gel, Sealed, AGM, Flooded
4 Stage Charging	Bulk, absorption, float, equalize (optional)
Temperature Compensation	Coefficient: –5mV/°C / cell (25°C ref) Range: –30°C to +60°C Set points: Absorption, float, equalize

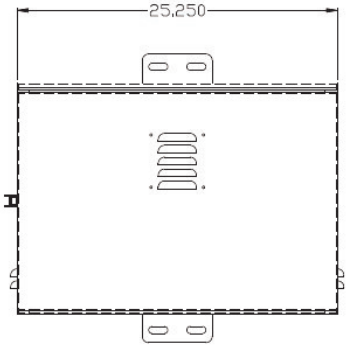
Enclosure BBA-1



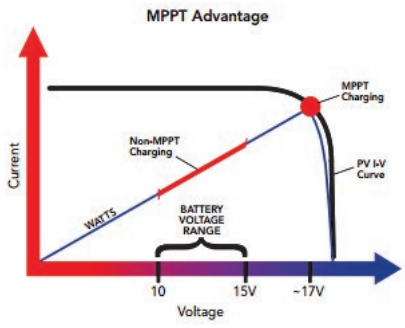
Enclosure BBA-2



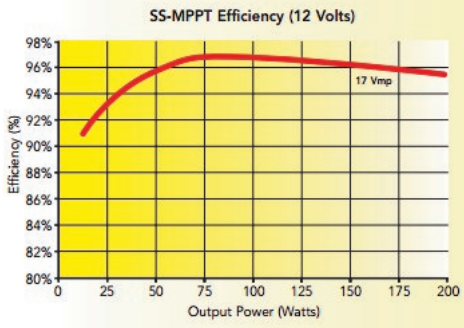
Enclosure BBA-3



MPPT Advantage



SS-MPPT Efficiency (12 Volts)



made in USA

RoHS Compliant

ONE YEAR PARTS & LABOR WARRANTY

SL-SPWR R:4713

ascendance wireless

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