Solar Generator

SYSTEM 1A

Enclosure

- 12.7" x 12.7" x 7"
- Powder coated steel box
- 4 Mounting holes on back
- Internal Mounting Bosses

Interconnect Wire

- 16 gauge stranded copper (tinned}
- Red/black polypropylene Insulation
- Temperature specification. 70'C + 1 os•c
- Outside jacket plate TPE (sunlight resistant)

LED Display Charge Control

- Battery state-of-charge indication by means of LEDs
- Load disconnect prewarning by acoustic signal
- Three-stage PWM charging algorithm with (integrated) temperature compensation (boost, equalization, and float charging)
- Automatic 12/24 V detection

Battery

- 12V DC
- 36 amp hour

- 1 Valve-regulated gelled electrolyte 12V DC batteries are designed to offer reliable, maintenance free power for renewable energy applications where frequent deep cycles are required and minimum maintenance is desired.
- The gelled electrotype gives more protection to the battery plates, and is better suited for deep cycle discharge. With longer discharge and less charging time, these batteries are ideal for many renewable energy applications.
- The thixotropic gel enables these batteries to be completely spill-proof providing many available options for installation.
- Battery life cycle is between 3 and 15 years depending on usage and installed temperature.
- Battery state-of-charge indication by means of LEDs
- System B increases the standby time by 235%. This is great when used with any important medical or critical use application.

300 Watt Sine Wave Inverter

- UL Listed
- Converts DC to AC
- 120 V AC
- 2 Outlets
- 2 USB Ports
- 1 Marine Grade 12V DC Cigarette Lighter Socket

Solar Panel

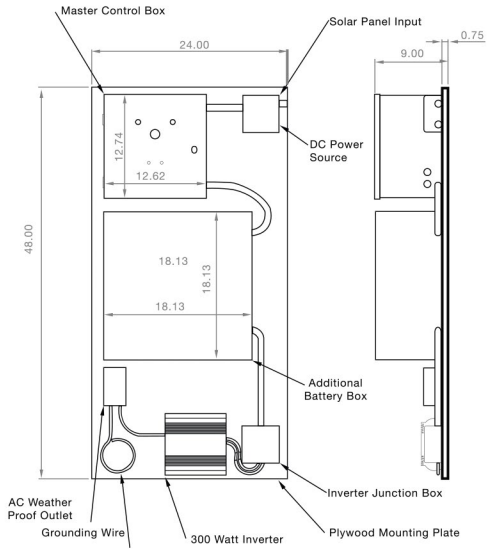
Solar Cells: 1 - 240 Watt Polycrystalline Solar Cells
Laminate: Glass/EVA/TPT(tadlar/pet/tadlar) or TPE
Back Side: TPT/TPE
Frame: Clear anodized aluminum frame
Output: Junction Box
Module size: 1290*665*35mm (50.8*28.2*1.38)
NET (kg): 10.2

Module Type	PM(Wp)	VMPP(V)	IMPP(A)	Voc(V)
SE-A18-120	120	18.0	6.67	22.3

yellowblue™
ECO TECH

Solar Generator

SYSTEM 1A SPECIFICATIONS



Master Control Unit:

Master control unit with charge controller and display with built in 12 V DC Power port and 1 each 12 volt 36 amp hour solar battery- mounted accessory switch with built in red activated LED - Panel mounted 10 amp circuit breaker for the 12 V DC power port outlet - locking front panel door - Mounted on 3/4 inch plywood back board painted white, mounting screws are included in kit.

Accessory Battery Box:

Accessory battery box mounted on back panel, used to house optional additional battery, optional additional battery choices are: 12 V DC 36 amp hour and 12 V DC 100 amp hour - no additional batteries are included in system 1A. - Interconnection to master control box via flexible conduit.

300 Watt Inverter:

300 Watt pure sine wave inverter, UL Listed - mounted on back board and completely wired to master control box - this inverter will power any 120 V AC device that consumes less than 300 watts, examples are: See attached power consumption guide.

Junction Box:

Heavy Duty junction box for connection of solar panel power input and auxiliary power output.

Additional Solar Panel:

120 watt High Efficiency Multicrystalline Solar Panel complete with roof mounting brackets, screws and 100 foot of 12 gage 2 conductor jacketed power connection cable.

Equipment Mounting Backboard:

Equipment mounting backboard - 3/4 inch plywood painted white -wall mounting fasteners - Wiring and operation instructions attached to back board.

System Capabilities:

The system will power up to 2 each 12 V DC e Suns and other 12 V DC devices that will plug into a power port outlet up to 12 amps - Any 120 V AC appliance that consumes less than 300 watts continually. The inverter produces pure sine wave power that makes the system 1A emergency solar generator suitable to power any sensitive electronice equipment or appliances.

yellowblue™
ECO TECH

NOTE: This system is designed as emergency solar powered electrical system; it is not designed to operate an entire home