

IMPORTANT: The Eco1800S Solar Generator's PVCC will be damaged if connected to a "24V" solar panel, or any source that exceeds 25 VDC.

NOTE: A "12V" solar panel, under Open Circuit conditions and sunlight exposure can typically produce 23 volts. Refer to the specifications label on the solar panel before connecting. Do not connect the PVCC to a PV source capable of delivering more than 8 amps.

Ensure that the PV solar panel is exposed to sufficient direct sunlight and is producing sufficient power throughout the day for optimum energy harvest and battery charging.

NOTE: It is recommended to always charge the internal battery to a 100% state-of-charge, as shown by a steady green PVCC status LED, and avoid deficit (or partial) charging. Deficit charging reduces a battery's useful service life.

AC POWER CAPABILITIES

Power Consumption of Loads	Normal Operation with Utility Power	Ability to Provide Backup Power
Up to 1800W	Yes	Yes (up to 1440 W continuous backup power mode)
Over 1800W	No. Supplementary protector may trip.	No. Overload shutdown.

To check the total power consumption of the products plugged into Eco1800S Solar Generator during backup power mode, press the Select button and view the Output Power (W) on the screen.

To test the Eco1800S Solar Generator backup power capabilities after installing the unit, unplug the AC power cord to simulate a power outage. Ensure the products connected to the Eco1800S Solar Generator continue operating. You can test the surge capabilities of the Eco1800S Solar Generator by turning connected products on and off while the unit is unplugged. If products fail to operate or the screen shows an error code, see "Troubleshooting".

12V DC POWER PORT

The Eco1800S Solar Generator includes a 12V DC power port for operating common DC auto accessories up to 12 amps from the internal 12-volt battery. If the 12V DC power port is overloaded a protective internal breaker will open (interrupt) current flow. When the overloading accessory is disconnected, the breaker will automatically re-close (reset) within a few minutes.

IMPORTANT: When powering the 12V DC accessory, do not allow the Eco1800S Solar Generator internal battery to be discharged completely (i.e., 0% state-of-charge) which can permanently damage the internal battery. To avoid over-discharging the internal battery, do not leave any DC accessory including mobile phone chargers or other portable appliances permanently connected to the Eco1800S Solar Generator's 12V DC power port. See also Warning below.

NOTE: The Battery Charge (%) reading on the top panel display (when turned on) is only accurate after the Eco1800S Solar Generator internal battery has been resting (not charging or discharged) for at least 30 minutes.

RUN TIME ON TYPICAL PRODUCTS

Product	Watts ^a	Run Time ^b
Cordless Phone	40	12.5 Hrs
Cell Phone	20	25 Hrs
Internet Modem	15	33 Hrs
Inkjet Printer	50-75	46 Hrs
Clock Radio	10	50 Hrs
Laptop Computer	20-140	2-25 Hrs
20" LCD Monitor	52	7.5 Hrs
Table Lamp	40	12.5 Hrs
13" TV	60	11 Hrs
Desktop Computer	80-450	15 min-6 Hrs
8.8 cu. ft. Freezer	200	1Hr
18 cu. Foot Fridge	500	15 min
Sump Pump 1/2 HP	500 1/4HP	15 min
Microwave	900-1600	5-12 min

RUN TIME ON TYPICAL PRODUCTS

Product	Run Time ^b
Laptop, Inkjet Printer, Cordless Phone, Internet Modem	up to 3 Hrs
Desktop Computer, 17" LCD Monitor, Inkjet Printer, Internet Modem, Cordless Phone	up to 1 Hr
Cordless Phone, 13" TV, Clock Radio, Table Lamp	up to 3 Hrs

a. Average power consumption as measured on loads tested under typical operating conditions. Rated power may differ from average power consumption.

b. Run times are typical, not minimum. Actual run time may vary.