



### PRODUCT OVERVIEW

This multi-functional inverter/charger, combines the functions of an inverter, solar charger and battery charger to offer uninterrupted power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

### FEATURES

- High efficiency pure sine wave inverter (PF=1)
- Wide PV input range (120V DC -500V DC) 80A MPPT SCC
- Intelligent 3 stage 60A AC battery charger.
- Surges up to 2X continuous power for 5 seconds for motor loads.
- Compatible with various battery types.
- Wide utility input range (90V AC ~280VAC) functions even in the most challenging environments.
- Intelligent variable speed fan for efficient thermal management and extended system life.
- Lithium battery activation design, allowing access for lead-acid batter and lithium battery.
- Monitor or troubleshoot with USB/RS 232 communications ports.

### APPLICATIONS

- Emergency power supply.
- Home backup storage.
- Data storage/UPS backup systems.
- Off-grid power storage.
- Solar power storage.

### Product Description

PART#	DESCRIPTION	OUTPUT VOLTAGE	INPUT VOLTAGE	POWER OUTPUT	WEIGHT
EV-SDPO-3.5	230VAC Hybrid Inverter	230VAC	24V	3500W	19.84 LBS
EV-SDPO-5.5	230VAC Hybrid Inverter	230VAC	48V	5000W	22.04 LBS

## Specifications

MODEL#	EV-SDPO-3.5	EV-SDPO-5.5
Rated Power	3500VA/3500W	5500VA/5500W
<b>INPUT</b>		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC (For Personal Computers) 90-280VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
<b>OUTPUT</b>		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	7000VA	11000VA
Efficiency (Peak)	90%~93%	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
<b>BATTERY</b>		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Max PV Array Open Circuit Voltage	500VDC	500VDC
Max PV Array Power	120~450VDC	120~450VDC
MPP Range at Operating Voltage	4000W	5000W
Max Solar Charge Current	100A	
Max AC Charge Current	60A	
Max Charge Current	100A	
<b>PHYSICAL</b>		
Dimension, D x W x H	4.52" x 11.81" x 15.74"	
Net Weight	19.84 LBS	22.04 LBS
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact	
<b>ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	14°F – 122°F	
Storage Temperature	5°F – 140°F	

### Product Images

