



PRODUCT OVERVIEW

The EC-SDPO-U series is a standard off grid hybrid inverter that combines photovoltaic and mains charging and discharging, UPS bypass and battery inversion functions. It can intelligently adjust work priorities, communicate with home lithium batteries and can also increase output power through multiple sets of parallel machines. The 8-10kW model can output split phase 120V/240V voltage, which is suitable for different application scenarios such as homes, RVs, agriculture and industry.

FEATURES

- Advanced SPWM technology, pure sine wave output
- Automatic activation of lithium batteries
- Three output modes:
 - Photovoltaic
 - Inverter
 - Mains bypass
- Four charging modes, including photovoltaic, mains, photovoltaic priority and hybrid charging.
- Advanced MPPT technology with efficiency of up to 99.9%

APPLICATIONS

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

Product Description

PART#	DESCRIPTION	INPUT VOLTAGE	OUTPUT VOLTAGE	MAX PV INPUT POWER	RATED POWER
EV-SDPO-U-3KW	3kW Single Phase Hybrid Inverter	110/120VAC	110/120VAC $\pm 5\%$	1600W	3000W
EV-SDPO-U-5KW	5kW Single Phase Hybrid Inverter	110/120VAC	110/120VAC $\pm 5\%$	5500W	5000W
EV-SDPO-U-8KW	8kW Split Phase Hybrid Inverter	110/120VAC	120/240VAC $\pm 5\%$	11000W	8000W
EV-SDPO-U-10KW	10kW Split Phase Hybrid Inverter	110/120VAC	120/240VAC $\pm 5\%$	11000W	10000W

Specifications

MODEL#	EV-SDPO-U-3KW	EV-SDPO-U-5KW	EV-SDPO-U-8KW	EV-SDPO-U-10KW
AC / GENERATOR INPUT				
Rated Input Voltage	110/120VAC			
Voltage Range	(90VAC~140VAC)±2%			
Frequency	50Hz±0.3Hz / 60Hz±0.3Hz			
INVERTER OUTPUT				
Rated Power	3000W	5000W	8000W	10000W
Output Voltage	110/120VAC±5%		120/240VAC±5%	
Waveform	Pure sine wave			
Switching Time (Adjustable)	Computer equipment: 10ms / household appliances: 20ms			
Peak Power	6000W	10000W	16000W	20000W
BATTERY				
Battery Type	Lithium-ion batteries / lead-acid batteries / user-defined			
Rated Battery Voltage	48VDC			
Battery Voltage Range	40~60VDC			
PV INPUT				
PV Charging Method	MPPT			
PV Maximum Input Power	1600W	5500W	11000W	11000W
MPPT Tracking Range	30-85VDC	120-450VDC	125-425VDC	125-425VDC
Maximum PV Charging Current	60A	80A	180A	200A
Maximum AC Charging Current	40A	40A	100A	120A
Maximum Total Charging Current	60A	80A	180A	200A
GENERAL SPECIFICATIONS				
Communication Interface	USB / RS485 (optional Wi-Fi) / dry connector			
Parallel Interface	/	Maximum of 6 parallel machines (optional)		
Product Size (mm)	378*280*103	426*322*126	498*410*201	498*410*201
Product Size (mm)	448*360*188	50*414*209	790*570*252	790*570*252
NW (kg)	638	10.5	27	27