

SDPO-U Off Grid Hybrid Inverter(US Model)

3.6-12kW



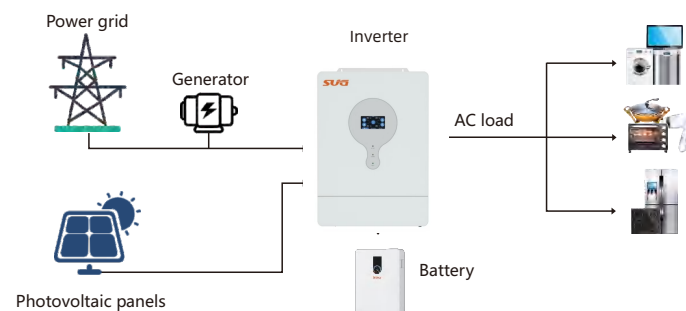
Product Introduction

The SDPO-U American standard off grid hybrid inverter combines photovoltaic and mains charging and discharging, UPS bypass, and battery inversion functions. It can intelligently adjust the work priority, communicate with home lithium batteries, and can also increase output power through multiple sets of parallel machines. The 10-12kW model can output split phase 120V/240V voltage, which is suitable for different application scenarios in the Americas, such as homes, RV, agriculture, and industry.

Product features

- 1 Advanced SPWM technology, pure sine wave output
- 2 Automatic activation of lithium batteries
- 3 Three output modes: photovoltaic, inverter, and mains bypass
- 4 Four charging modes including photovoltaic, mains, photovoltaic priority, and hybrid charging
- 5 Advanced MPPT technology with an efficiency of up to 99.9%

Product Connection Diagram



Product Parameters

Model	SDPO-U-3.6kW		SDPO-U-6.5kW	SDPO-U-12kW	SDPO-UP-12kW
AC/Generator input					
Rated input voltage	110/120VAC				
Voltage range	(90Vac~140Vac)±2%				
Frequency	50Hz±0.3Hz/60Hz±0.3HZ				
Inverted output					
Rated power	3600W	6500W	12000W	12000W	
Output voltage	110/120Vac±5%			120/240Vac±5%	
Waveform	Pure sine wave				
Switching time (adjustable)	Computer equipment 10ms, household appliances 20ms				
Peak power	6200W	13000W	24000W	24000W	
Battery					
Battery type	Lithium ion batteries/lead-acid batteries/user-defined				
Rated battery voltage	48Vdc	48Vdc			
Battery voltage range	40~60Vdc				
PV input					
PV charging meth	MPPT				
PV maximum input power	4000W	8400W	11000W	11000W	
MPPT tracking range	80-300VDC	80-300VDC	90-450VDC	90-450VDC	
Maximum PV charging current	60A	60A	220A	220A	
Maximum AC charging current	60A	60A	160A	160A	
Maximum total charging current	60A	60A	220A	220A	
Basic parameters					
Communication interface	USB/RS485 (optional WiFi)/dry connector				
Parallel interface	Maximum of 6 parallel machines (optional)				
Product size (mm)	415*280*100	540*350*120	650*450*150	650*450*150	
Product size (mm)	448*360*188	580*414*209	770*570*240	770*570*240	
NW. (kg)	7	15	25	25	
GW. (kg)	9	17	28	28	