

8KW SINGLE-PHASE OFF-GRID INVERTER

SmartInver 8KW



| Main features

- Can work without batteries;
- Wide MPPT operating range, 100V~450Vdc;
- Can be paired with Lithium battery packs and Lead-acid batteries;
- Wide grid voltage range, 90V~280Vac;
- Can be used in parallel, parallel to form single-phase or three-phase, up to 9 units can be connected in parallel;
- Ingress protection rating is IP54, the warranty period is 2.5 years;

Technical parameters

Model	SP-8K-EP1	SP-10K-EP1	SP-12K-EP1
Rated Output Power	8000VA/8000W	10000VA/10000W	12000VA/12000W
Parallel	Yes, 9 units		
AC Input(Grid)			
Rated Input Voltage	230Vac		
Voltage Range	170~280Vac(UPS); 90~280Vac(Appliances)		
Frequency Range	40~65Hz		
Maximum Bypass Load Current	60A	70A	
Maximum Charge Current	120A		
Load Output			
AC Voltage	(220/230/240)Vac±5%		
Output Frequency	50/60Hz±1%		
Maximum Power	16000VA	20000VA	24000VA
Maximum Efficiency	94%		
Overload Protect	10S@≥150% Load; 15S@110%~150% Load		
Transfer Time	10ms(UPS); 20ms(Appliances)		
Battery			
Battery Voltage	48VDC(Lead-acid)/51.2VDC(Lithium)		
Maximum Charge Current(AC+PV)	160A	180A	200A
Maximum Discharge Current	215A	245A	275A
PV Array			
Maximum Open Circuit Voltage	500VDC		
Maximum PV Power	8000W	10000W	12000W
MPPT Voltage Range	100VDC~450VDC		
Maximum Input Current	27A		
Maximum PV Charge Current	160A	180A	200A
General Specifications			
Dimensions H x W x D	630x505x130 mm		
Net Weight	27.5kG		
Communication	RS485/CAN/Dry contact		
Cooling	Fan Cooling		
Maximum Operation Altitude	4000m (Derating from>2000m)		
Noise	≤55dB		
Ingress Protection Rating	IP54		
Operation Humidity	5% ~95% Relative humidity (No Condensation)		
Storage Temperature Range	-15℃~60℃		
Operating Temperature Range	-10℃~50℃		
Warranty	2.5 Year		



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