



8~12kW

SP-HYBRID

Product Features

- Dual Output**
Support Smart Load and Main Load
- High PV Input Power**
PV Input Power up to 16000W
Max. MPPT Charging Current up to 160A/210A
- High Efficiency**
MPP Tracking Efficiency ≥99.5%
Battery Mode Conversion Efficiency ≥95%
- Powerful Performance**
105%-150% Overload Capacity@10S
150%-200% Overload Capacity@5S
Max Grid Input Voltage 380V
- Solid Quality & Service**
IP54 Protection Design for Anti-Dust and Waterproof
3-Year Replacement

Model	IPV-8K48U	IPV-12K48U
Efficiency		
MPPT Tracking Efficiency	99.5%	
Max. Battery Mode Conversion Efficiency	93%	95%
PV Input		
Max. PV Input Power	16000W	
Max. PV Input Voltage	500V	
Start-Up Voltage	75V	
MPPT Voltage Range	85V~450V	
Max. Input Current	30A+15A	27A+27A
MPP Trackers	2	
AC Input		
Max. Grid Input Voltage	380Vrms	
Nominal Voltage(Optional)	220VAC/230VAC/240VAC	
Input Voltage Range	90VAC-280VAC	
Max. AC Input Current	36.4A(Bypass Mode)	90A(Bypass Mode)
Nominal Operating Frequency	50/60Hz	
THDi	<3%	
AC Output		
Nominal AC Output Power	8kW	12kW
Max. Output Apparent Power	8kVA	12kVA
Nominal AC Output Voltage(Optional)	220VAC/230VAC/240VAC	
Total Voltage Harmonic Distortion	<3%	
Nominal AC Frequency	50Hz	
Switch Time	10mS(UPS);20mS(Applicances)	
Surge Power	16kW@5S	24kW@5S
Overload Capacity	105%-150%@10S,150%-200%@5S	
Battery		
Battery Type	Lead-acid/Lithium-ion/User Defined	
Rated Voltage	48V	
Battery Voltage Range	40~60V	
Max. MPPT Charging Current	160A	210A
Max. Mains/Generator Charging Current	160A	210A
Max. Discharging Current	180A	250A
General		
Dimensions D*W*H	125mm*420mm*520mm	125mm*525mm*630mm
Net Weight	20kg	28.5kg
Operating Temperature Range	-10°C-55°C,>45°C Power Derating	
Max. Operating Altitude	4000m,>2000m Power Derating	
Communication	WIFI/RS485/CAN/RS232/Dry Contact	
Diesel Generator Support	Yes	
Smart Load Support	Yes	
Number of Parallel	Single Phase:9 Three Phase:12	Single Phase:6 Three Phase:12
Cooling Method	Intelligent Fan Cooling	
Noise	<55dB(PV Connected) <45dB(No PV Connected)	<60dB
Authentication Level	IEC62109-1,IEC62109-2,IEC61683	
Protection		
Ingress Protection	IP54	
Overvoltage Protection	Yes	
Overload Protection	Yes	
Short Circuit Protection	Yes	
Over Temperature	Yes	
Surge Protection	DC: Typelll, AC: Typelll	