



Hybrid Inverter(IP54)

4~6kW Pro

SP-HYBRID



Product Features

- Dual Output**
Support Smart Load and Main Load
- High PV Input Power**
PV Input Power up to 6000W/8000W
Max. MPPT Charging Current up to 120A
- High Efficiency**
MPP Tracking Efficiency ≥99.9%
Battery Mode Conversion Efficiency ≥93%
- Powerful Performance**
150% Overload Capacity@10S
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-4K24U Pro		IPV-6K48U Pro	
Efficiency				
MPPT Tracking Efficiency	≥99.9%			
Max. Battery Mode Conversion Efficiency	≥93%			
PV Input				
Max. PV Input Power	6000W		8000W	
Max. PV Input Voltage	500V			
Start-Up Voltage	80V			
MPPT Voltage Range	85V~450V			
Max. Input Current	15A		27A	
MPP Trackers	1			
AC Input				
Max. Grid Input Voltage	380Vrms			
Nominal Voltage	230VAC			
Input Voltage Range	90-280VAC			
Max. AC Input Current	28A(Bypass Mode)		50A(Bypass Mode)	
Nominal Operating Frequency	50Hz/60Hz			
THDi	<3%			
AC Output				
Nominal AC Output Power	4000W		6000W	
Max. Output Apparent Power	4000VA		6000VA	
Nominal AC Output Voltage	220/230/240V			
Total Voltage Harmonic Distortion	<3%			
Nominal AC Frequency	50Hz			
Switch Time	10mS(UPS);20mS(Applicances)			
Surge Power	8000W@5S		12000W@5S	
Overload Capacity	105%-150%@10S,150%-200%@5S			
Battery				
Battery Type	Lead-acid/Lithium-ion/User Defined			
Rated Voltage	24V		48V	
Battery Voltage Range	20V~30V		40V~60V	
Max. MPPT Charging Current	120A		120A	
Max. Mains/Generator Charging Current	100A		120A	
Max. Discharging Current	160A		130A	
General				
Dimensions D*W*H (mm)	120mm*347mm*445mm			
Net Weight	9.2kg		13kg	
Operating Temperature Range	-10°C~-+55°C, >45°C Power Derating			
Max. Operating Altitude	4000m, >2000m Power Derating			
Communication	WIFI/RS485//RS232/Dry Contact			
Diesel Generator Support	Yes			
Smart Load Support	Yes			
Number of Parallel	No		12	
Cooling Method	Intelligent Fan Cooling			
Noise	<60dB			
Authentication Level	IEC62109-1,IEC62109-2,IEC61683			
Protection				
Ingress Protection	IP54			
Overvoltage Protection	Yes			
Overload Protection	Yes			
Short Circuit Protection	Yes			
Over Temperature Protection	Yes			
Surge Protection	DC: TypeIII, AC: TypeIII			