



4~6kW Pro

SP-HYBRID



Product Features



Dual Output

Support Smart Load and Main Load



High PV Input Power

PV Input Power up to 6kW/8kW
Max. MPPT Charging Current up to 120A



High Efficiency

MPP Tracking Efficiency $\geq 99.9\%$
Battery Mode Conversion Efficiency $\geq 93\%$



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
5-Year Service Warranty

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	