



1~3kW SP-Off-Grid



Product Features

High Efficiency
Pure Sine Wave Inverter
MPP Tracking Efficiency ≥99.9%
Battery Mode Conversion Efficiency ≥93%

Powerful Performance
150% Overload Capacity@10S
200% Overload Capacity@2S
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-1K12U	IPV-1K512U	IPV-3K24U
Efficiency			
MPP Tracking Efficiency	≥99.9%		
Max. Battery Mode Conversion Efficiency	≥93%		
PV Input			
Max. PV Input Power	600W	650W	1500W
Max. PV Input Voltage	120V	130V	145V
Start-Up Voltage	20V	21V	36V
MPPT Voltage Range	16V-120V	15V-120V	30V-120V
Max. Input Current	23A	20A	25A
MPP Trackers	1		
AC Input			
Max. Grid Input Voltage	380Vrms		
Nominal Voltage(Opional)	220VAC/230VAC/240VAC		
Input Voltage Range	160VAC-280VAC	90VAC-280VAC	
Max. AC Input Current	8A(Bypass Mode)	10A(Bypass Mode)	20A(Bypass Mode)
Nominal Operating Frequency	50/60Hz		
THDi	<3%		
AC Output			
Nominal AC Output Power	1000W	1500W	3000W
Max. Output Apparent Power	1200VA	1800VA	3600VA
Nominal AC Output Voltage(Opional)	220VAC/230VAC/240VAC		
Total Voltage Harmonic Distortion	<3%		
Nominal AC Frenquency	50Hz		
Switch Time	20mS		
Surge Power	2000W@2S	3000W@2S	6000W@2S
Overload Capacity	105%-150%@10S,150%-200%@2S		
Battery			
Battery Type	Lead-acid/Lithium-ion/User Defined		
Rated Voltage	12V		24V
Battery Voltage Range	10~15V		20-30V
Max. MPPT Charging Current	50A	45A	60A
Max. Mains/Generator Charging Current	60A	105A	120A
Max. Discharging Current	100A	125A	125A
General			
Dimensions D*W*H(mm)	100*272*335	108*350*290	
Net Weight	3.4kg	5.5kg	6kg
Operating Temperature Range	-10°C~+55°C,>45°C,Power Derating		
Max. Operating Altitude	4000m, >2000m Power Derating		
Communication	No	RS232	RS485/RS232
Diesel Generator Support	No		
Smart Load Support	No		
Number of Parallel	No		
Cooling Method	Intelligent Fan Cooling		
Noise	<55dB(PV Connected),<45dB(No PV Connected)		
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		