

Model	IPV-1K12U	IPV-1K512U	IPV-3K24U	IPV-3K24U Pro
Efficiency				
MPP Tracking Efficiency	≥99.9%			
Max. Battery Mode Conversion Efficiency	≥93%			
PV Input				
Max. PV Input Power	600W	650W	1500W	4500W
Max. PV Input Voltage	120V	130V	145V	500V
Start-Up Voltage	20V	21V	36V	75V
MPPT Voltage Range	16V-120V	15V-120V	30V-120V	70V-425V
Max. Input Current	23A	20A	25A	18A
MPP Trackers	1			
AC Input				
Max. Grid Input Voltage	380Vrms			
Nominal Voltage(Optional)	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(Optional)	220VAC/230VAC/240VAC			
Total Voltage Harmonic Distortion	<3%			
Nominal AC Frequency	50Hz			
Switch Time	20mS			
Surge Power	2000W@2S	3000W@2S	6000W@2S	
Overload Capacity	105%-150%@10S,150%-200%@2S			2S@150%load, 10S@105%-150%load
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			