

IPV-3K24U PRO

# Hybrid Inverter IP54



## 3kW Pro | SP-HYBRID



### High Efficiency

MPP Tracking Efficiency 99.9%  
Battery Mode Conversion Efficiency 92%



### Powerful Performance

150% Overload Capacity@10S  
200% Overload Capacity@2S  
AC Input Overvoltage Protection till 380V



### Solid Quality & Service

IP54 Protection Design for Anti-Dust and Waterproof  
3-Year Replacement  
5-Year Service Warranty

Model	IPV-3K24U Pro
<b>Efficiency</b>	
MPP Tracking Efficiency	≥99.9%
Max. Battery Mode Conversion Efficiency	≥93%
<b>PV Input</b>	
Max. PV Input Power	4500W
Max. DC Input Voltage	500V
Start-Up Voltage	75V
MPPT Voltage Range	70V-425V
Max. Input Current	18A
MPP Trackers	1
<b>AC Input</b>	
Max. Grid Input Voltage	380Vrms
Nominal Voltage (Optional)	220VAC/230VAC/240VAC
Input Voltage Range	90VAC-280VAC
Max. AC Input Current	20A (Bypass Mode)
Nominal Operating Frequency	50Hz/60Hz
THDi	<3%
<b>AC Output</b>	
Nominal AC Output Power	3000W
Max. Output Apparent Power	3600VA
Nominal AC Output Voltage	220V
Total Voltage Harmonic Distortion	<3%
Max. AC Output Current	16.3A
Nominal AC Frequency	50Hz
Switch Time	20ms
Surge Power	6000VA@2S
Overload Capacity	105%-150%@10S 150%-200%@2S
<b>Battery</b>	
Battery Type	Lead-acid/Lithium-ion/User Defined
Rated Voltage	24V
Battery Voltage Range	20-30V
Max. MPPT Charging Current	125A
Max. Mains/Generator Charging Current	125A
Max. Discharging Current	135A
<b>General</b>	
Dimensions (LxWxH) mm	290 × 108 × 350 mm
Net Weight	9.2kg
Operating Temperature Range	-10~+55°C, >45°C Power Derating
Max. Operating Altitude	4000m, >2000 Power Derating
Communication	RS485/RS232
Diesel Generator 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
<b>Protection</b>	
Ingress Protection	IP54
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TYPE III, AC: TYPE III