SMART SOLAR

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IPV-3K24U PRO

3KW PRO SP-HYBRID INVERTER

IP54 RATED

★ Replacement Warranty Solution | 3kW Hybrid Inverter | 99.9% MPPT Efficiency | 24V System Voltage | 4500W Max PV Input | 500V DC Max Voltage | Pure Sine Wave | RS485 / RS232 | IP54 Anti-Dust & Waterproof | 150% Overload Capacity @10S

High Efficiency

MPP Tracking Efficiency ≥ 99.9%
Battery Mode Conversion Efficiency ≥ 93%

Powerful Performance

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

Solid Quality & Service

IP54 Protection (Anti-Dust & Waterproof)
3-Year Replacement | 5-Year Service Warranty

TECHNICAL SPECIFICATIONS

EFFICIENCY & PV INPUT	
MPP Tracking Efficiency	≥ 99.9%
Max. Battery Mode Conversion Efficiency	≥ 93%
Max. PV Input Power	4500 W
Max. DC Input Voltage	500 V
Start-Up Voltage	75 V
MPPT Voltage Range	70V – 425V
Max. Input Current / MPP Trackers	18 A / 1 MPPT
AC INPUT & OUTPUT	
Nominal AC Output Power	3000 W (Max. Apparent Power: 3600 VA)
Nominal AC Output Voltage & Frequency	220 V | 50 Hz
Max. AC Output Current	16.3 A
Surge Power & Overload	6000VA @ 2S | 105%-150% @ 10S | 150%-200% @ 2S
Grid Input Voltage Range (Optional)	220VAC / 230VAC / 240VAC (90VAC – 280VAC)
Max. Grid Input Voltage & AC Current	380 Vrms | 20 A (Bypass Mode)
THDI / THDV & Switch Time	THDI < 3% | THDV < 3% | 20 ms Switch Time
BATTERY & CHARGING	
Battery Type	Lead-acid / Lithium-ion / User Defined
Rated Voltage / Voltage Range	24 V (20V – 30V)
Max. MPPT & Mains Charging Current	125 A
Max. Discharging Current	135 A
GENERAL & SAFETY PROTECTIONS	
Dimensions (L × W × H) & Weight	290 × 108 × 350 mm | 9.2 kg
Operating Temp. & Altitude	-10°C to +55°C (>45°C Derating) | Max. 4000m (>2000m Derating)
Cooling & Noise Level	Intelligent Fan Cooling | < 55dB (PV) / < 45dB (No PV)
Communication Interface	RS485 / RS232

EFFICIENCY & PV INPUT	
Ingress Protection & Authentication	IP54 | IEC62109-1, IEC62109-2, IEC61683
Integrated Protections	Overvoltage, Overload, Short Circuit, Over Temperature, DC/AC Surge Type III

3-YEAR REPLACEMENT WARRANTY | **5-YEAR SERVICE WARRANTY** | **IP54 DUST & WATERPROOF**