

JF-5.5KP-ML

Single Phase Off-Grid Solar Inverter

5.5kW



Lithium/GEL/AGM/Flooded battery



Parallel connection up to 6 devices



Grid/Generator/PV supply connection



Smart energy management



Intelligent adjustable speed fan



Charge/discharge protection

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Technical Data

JF-5.5KP-ML

Input (PV)

Max. Input Power:	6 kW
Max. Input Voltage:	500 Vdc
Voltage Range:	120~500 Vdc
MPPT Voltage Range:	120~450 Vdc
Max. Input Current:	22 A
Max. Charging Current:	80 A

Output (AC)

Output Voltage Waveform:	Pure Sine Wave
Rated Output Voltage:	230 Vac
Rated Output Power:	5.5 kVA
Peak Power:	11 kVA
On-load Motor Capacity:	4 HP
Rated Frequency:	50/60 Hz (± 0.3 Hz)
Maximum Efficiency:	>92%
No-load Loss:	Non Energy-saving Mode: ≤ 50 W Energy-saving Mode: ≤ 25 W (Manual Setup)

AC Input (Generator/Grid)

Mains Maximum Charging Current:	60 A
Rated Input Voltage:	220/230 Vac
Input Voltage Range:	UPS Mains Mode: (170Vac~280Vac) $\pm 2\%$ APL Generator Mode: (90Vac~280Vac) $\pm 2\%$
Frequency:	50/60 Hz (Automatic Detection)
Mains Charging Efficiency:	>95%
Switch Time (bypass and inverter):	10 ms (Typical Value)
Maximum Bypass Overload Current:	40 A

Battery

Battery Type:	Lithium / GEL / AGM / Flooded
Battery Rated Voltage:	48 V (Minimum Startup Voltage 44 V)
Hybrid Charging Max. Charging Current:	80 A
Battery Voltage Range:	40~60 Vdc (± 0.6)

Number of Parallel/Split Phases:	1-6 pcs.
Protection:	Short circuit protection, Overload protection, Undervoltage and overvoltage protection, Reverse polarity protection
Display:	LCD
Communication:	USB / RS485 (WiFi/GPRS) / Dry contact control
Operation Temperature:	-10~55°C
Cooling Method:	Intelligent adjustable speed fan
Noise Emission:	<60 dB
Relative Humidity:	5%~95% (Conformal Coating Protection)
Certifications:	CE (IEC62109-1), CETL (UL 1741 C22.2 NO.107.1), FCC, SAA
EMC Certification Level:	EN61000, C2
Warranty:	15 Months
Dimensions (WxHxD):	426x322x12 mm
Weight:	10.5 kg