



**JF-5.5KP-ML**

# Single Phase Off-Grid Solar Inverter

5.5kW



Lithium/GEL/AGM/Flooded battery



Smart energy management



Parallel connection up to 6 devices



Intelligent adjustable speed fan



Grid/Generator/PV supply connection



Charge/discharge protection

# JF-5.5KP-ML Single Phase Off-Grid Solar Inverter

## 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 ( $\pm 0.3$ Hz)  |
| Maximum Efficiency:      | >92%  |
| No-load Loss:            | Non Energy-saving Mode: $\leq 50$ W<br>Energy-saving Mode: $\leq 25$ 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) $\pm 2\%$<br>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 ( $\pm 0.6$ )             |

|                                  |   |
|----------------------------------|---|
| 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   |