

ALL-IN-ONE PV INVERTER

F09 Series

8 kWh | 3.2kW | LFP



All-in-One Integration

4-in-1 integration. The ultra-slim 235mm plug-and-play unit minimizes footprint and cuts installation time.

≥99% MPPT Efficiency

Maximize solar yield. 5600W input and an ultra-wide voltage range capture energy earlier and longer.

8kWh LFP Battery

Built for endurance. High-safety LFP cells feature 160A ultra-fast charging for reliable energy reserves.

0ms Seamless Switch

Uninterrupted pure sine wave power. Robust 2HP motor capability drives heavy-duty appliances effortlessly.

Advanced Protection

The ultimate safety shield. Hardware-software synergy defends against overvoltage, short circuits, and reverse charging.

Model:		F09-3200
Rated Power		3.2kW
Rated Capacity		8kWh
Output Phase Number		Single Phase Output
Battery Type		Lithium Iron Phosphate
Grid/Generator Input	Input Voltage Range	170~280Vac
	Rated Input Frequency	50Hz/60Hz
	Max Input Current	40A
Inverter Mode	Peak Power	4kVA
	Rated Output Voltage	230/110 VAC (Single-phase)
	Motor Starting Capability	2HP
	Rated Output Frequency	50Hz or 60Hz
	Output Waveform	Pure Sine Wave
	Grid to Inverter Mode Switching Time	0ms
	Number of MPPT Trackers	1
PV Input	Max Solar Charging Power	3400/5600W
	Max Solar Charging Current	60/100A
	Max Open Circuit Voltage (Voc)	200Vdc
	MPPT Operating Voltage Range	33~130/70~130Vdc
	MPPT Tracking Efficiency	≥99%
Battery	Battery Pack Nominal Voltage	25.6Vdc
	Cell Voltage Range	22.4-29.2Vdc
	Charging Mode	Three-stage Charging (for LFP Battery)
	Max Discharge/Grid Charging	60A
Max Hybrid Charging Current		120/160A
Protection Function All-in-one Protection Function		PV current/power limit protection, PV nighttime anti-reverse charging protection, PV reverse polarity protection, output short circuit protection, charging short circuit protection, overvoltage protection, undervoltage protection, overcurrent protection, overtemperature protection, etc.
Dimensions	H*W*D (mm)	480*910*235
	Net Weight	87.5
Operating Environment	Communication	WiFi (Optional)
	Application Scenario	Indoor
	IP Rating	IP20
	Humidity	5%~95% Relative Humidity (RH)
	Operating Temperature	0°C~55°C
	Storage Temperature	-20°C~60°C
	Altitude	3000m (Power Derating above 2000m)
Cooling Method	Forced Air Cooling	

*The technical specifications of this document are subject to change without any notice