

PORTABLE SOLAR POWER STATION

F07 Series

1kWh | 51.2V | 176~264 Vac



Model:	F07-200	F07-300	F07-500
Rated Power	200W	300W	500W
Rated Capacity	1kWh		
Output Phase Number	Single Phase Output		
Battery Type	Single-string Lithium Iron Phosphate (LFP) Battery		
Grid Mode	Rated Input Voltage		
	230 Vac		
	Input Voltage Range		
	176~264 Vac		
	Rated Input Frequency		
	50/60 Hz		
Grid Mode	Power Factor		≥ 0.95 at Full Load
	Max Input Current		≥ 0.97 at Full Load
Inverter Mode	1.5A	2A	2.5A
	Efficiency		
	85.0% max		
	Output Voltage		
230 Vac ± 5%			
Inverter Mode	Rated Output Frequency		
	50/60 Hz		
	Grid to Inverter Mode Switching Time		
20 ms			
PV Input	Max Solar Charging Power		200W (Input ≥20V)
	PV Voltage Range		400W
	12~36 Vdc	12~55 Vdc	10~50 Vdc
	PV Start-up Voltage		≥9.1V
	PV Start-up Voltage		15V
	Max Input Current Limit		
	10A		
	Max Open Circuit Voltage (Voc)		
42 Vdc	60 Vdc	55 Vdc	
PV Input	MPPT Tracking Efficiency		
	≥99%		
	PV to Battery Charging Efficiency		
	90% (max)		
Battery	Battery Pack Nominal Voltage		
	51.2V		
	Cell Rated Voltage		
	3.3 Vdc (Discharge Mode, Start-up at Battery Voltage ≥2.6V)		
	Cell Voltage Range		
	2.8-3.65 Vdc		
	Charging Mode		
Three-stage Charging (for LFP Battery)			
Battery	Battery Under Voltage Threshold		2.8±0.1V
	Battery Over Voltage Threshold		3.65±0.1V
Protection Function	Inverter Protection		
	Input Undervoltage, Input Overvoltage, Output Overload, Overtemperature, Short Circuit Protection		
Dimensions	H*W*D		290*230*135mm
	Net Weight		310*230*150mm
Operating Environment	8.7kg		12kg
	Application Scenario		
	Indoor		
	IP Rating		
	IP21		
	Noise		
	<50dB		
Operating Environment	Humidity		
	5%~95% Relative Humidity (RH)		
Operating Environment	Operating Temperature		
	-0°C~60°C (Whole Unit Power Derating at 45°C~60°C)		
	Storage Temperature		
	-20°C~60°C		
Operating Environment	Altitude		3000m (Power Derating above 2000m)
	Cooling Method		
Forced Air Cooling (2 built-in 5V / 0.15A fans)			

3-in-1 Charging, All Scenarios
Supports solar/AC/car charging for fast power anytime.

Universal & Wide Voltage Stable
Universal AC socket + 176-264V adaptive voltage for stable power.

Upgraded Solar Fast Charge
400W max solar input + 99%+ MPPT efficiency for faster charging.

Safe & Durable LFP Core
LFP battery + 20ms seamless switching with full protection.

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