



Built-in
Wi-Fi Module



Built-in
MPPT



Support Lithium
Battery



Feed-in
Grid Function



Hybrid Solar Inverter 5KW

Model: MR-SPF5K-LP1-TL20E

FEATURES

- Rated power 5kW, power factor 1
- MPPT ranges 60V~450V, 500Voc
- High frequency inverter with small size and light weight
- Pure sine wave AC output
- Solar and utility grid can power loads at the same time
- With CAN/RS485 for BMS communication
- With the ability to work without battery
- WIFI module for monitoring
- Dual AC output
- Feed-in to grid function



APPLICATION SCENARIOS



Villa



Home



Manor



Small Farm

SOLAR SYSTEM CONNECTION



SPECIFICATIONS

MODEL	MR-SPF5K-LP1-TL20E
RATED POWER	5kVA / 5kW
INPUT	
Nominal Voltage	208 / 220 / 230 / 240VAC
Voltage Range	170 – 264VAC (UPS Mode); 90 – 280VAC (APP/GEN Mode)
Frequency Range	50 / 60Hz ±10Hz (Auto sensing)
OUTPUT	
Nominal Output Voltage	208 / 220 / 230 / 240VAC ± 5%
Output Power	Rated 5kW; 4kW(Only Battery)
Surge Power	2 times of rated power
Nominal Output Frequency	50 / 60Hz ± 0.1% (Batt. Mode)
Efficiency	Max. 93.5% (Batt. Mode)
Transfer Time	10ms (UPS/APP Mode); 20ms (GEN Mode)
BATTERY	
Nominal Battery Voltage	24VDC
Battery Voltage Range	20VDC – 30.5VDC
Battery Type	Lead-acid / Lithium / User-defined
AC CHARGING & SOLAR CHARGING	
Solar Charger Type	MPPT
Max. PV Input Power	9kW
Max. PV Input Current	27A
MPPT Voltage Range	60 – 450VDC (Min. 80VDC without battery connected)
Max. PV Open Circuit Voltage	500VDC
Max. Solar Charging Current	160A
Max. AC Charging Current	160A
Max. Hybrid Charging Current	160A
PHYSICAL & COMMUNICATION	
Dimension, W x H x D (mm)	336 × 410 × 110
Net Weight (kg)	8.4
Communication Interface	BMS(485/CAN), WiFi Module
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

Specifications are subject to change without notifications and all the product diagrams are for reference only