

# Off-Grid Solar Inverter

Single Phase - IP20 - High Frequency

Model: MR-SPF3K(5K)-LP1-TL20U

## FEATURES

- MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes
- Multiple safety approvals available
- Support for many types of batteries
- Supports BMS communication
- Outputs pure sine wave AC power
- Industrial design with modern aesthetic look
- Easy to install and simple to use
- Support for APP remote monitoring



## SPECIFICATION

MODEL	MR-SPF3K-LP1-TL20U	MR-SPF5K-LP1-TL20U
<b>RATED POWER</b>	3000W	5000W
<b>PARALLEL CAPACITY</b>	No	No
<b>AC INPUT (UTILITY/GENERATOR)</b>		
Nominal Input Voltage	120VAC (single phase)	
Input Voltage Range	90VAC – 140VAC	
Frequency Range	50Hz / 60Hz	
<b>OUTPUT</b>		
Output Voltage	120VAC (single phase)	
Output Frequency	50Hz / 60Hz ± 1%	
Output Waveform	Pure Sine Wave	
Transfer Time	10ms (typical)	
Surge Power	6000VA	11000VA
<b>PV INPUT</b>		
Num. of MPPT Trackers	1	1
Max.PV Array Power	1600W	6000W
Max.input Current	40A	22A
Max.Voltage of Open Circuit	108VAC	500VDC
MPPT Voltage Range	30VDC – 90VDC	120VDC – 450VDC
<b>BATTERY &amp; CHARGING</b>		
Battery Type	Li-ion/ Lead-Acid / User Defined	
Rated Battery Voltage	24VDC	48VDC
Max. PV Charging Current	60A	80A
Max. AC Charging Current	40A	40A
Max.Hybrid Charging Current	100A	80A
<b>COMMUNICATION</b>		
Embedded Interfaces	RS485 / USB / Dry-contact	
External Modules (Optional)	Wi-Fi module / GPRS	
<b>GENERAL</b>		
Dimensions, L × W × H (mm)	378 × 280 × 103	426 × 322 × 126
Weight (kg)	6.8	8.6
Protection Degree	IP20, indoor only	
Operating Temp	-10°C to 50°C	
Humidity	5% – 95% (Non-condensing)	