



Dual
Outputs



Built-in
Wi-Fi



Lithium Battery
Supported



Built-in
MPPT



Detachable
LCD



Off-Grid Solar Inverter

Model: MR-SPF12K-LP1-TL20E

FEATURES

- Dual outputs, for smart load management
- Built-in Wi-Fi for mobile monitoring (Android/iOS APP)
- Supports USB On-the-Go function
- Detachable LCD control panel
- Reserved communication ports for BMS (RS485, CAN), RS232
- Configurable input voltage ranges for home appliances and PC
- Configurable AC/PV output usage timer and prioritization
- Configurable AC/PV charger priority via LCD control panel
- Compatible to utility mains or generator power
- Overload /Over temperature / short circuit protection
- Smart battery charger design for optimized battery performance
- Parallel operation with 6 units



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APPLICATION SCENARIOS



Villa



Home

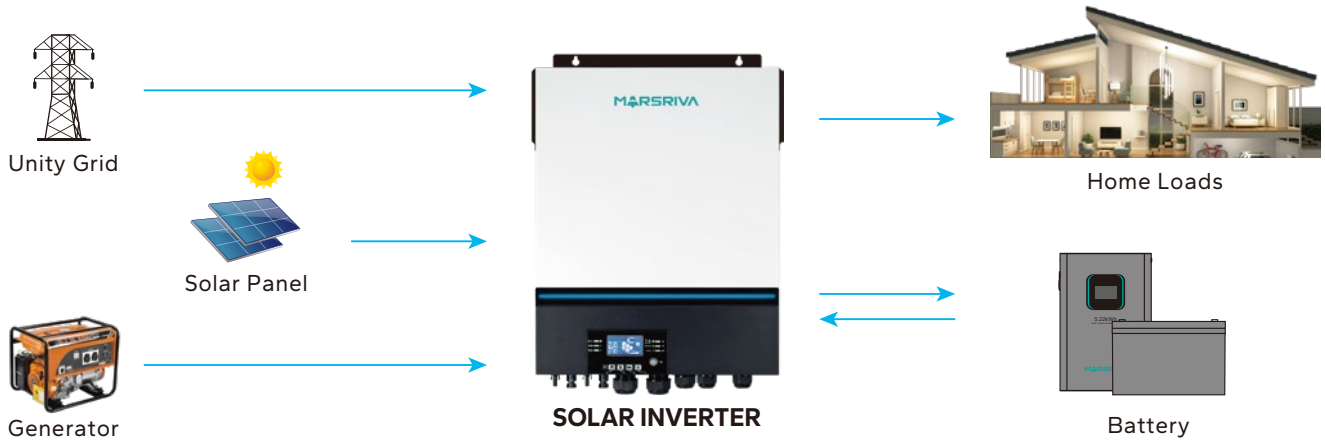


Manor



Small Farm

SOLAR SYSTEM CONNECTION



SPECIFICATIONS

MODEL	MR-SPF12K-LP1-TL20E
RATED POWER	12kVA/12kW
PARALLEL CAPABILITY	Yes, 6 units
INPUT	
Nominal Input Voltage	230VAC
Input Voltage Range (Selectable)	170 – 280VAC (For PC); 90 – 280VAC (For Home Appliances)
Nominal Input Frequency	50Hz / 60Hz (Auto sensing)
OUTPUT	
Output Voltage Regulation	230VAC \pm 5%
Nominal Output Frequency	50Hz / 60Hz
Waveform	Pure sine wave
Transfer Time	10ms (For PC); 20ms (For Home Appliances)
Surge Power	24kVA
Peak Efficiency	95% at Line mode, 93% at Inverter mode
PV INPUT	
Max. PV Array Power	15kW (7.5kW*2)
MPPT Operating Voltage Range	90 – 450VDC
Max. PV Array Open Circuit Voltage	500VDC
Max. PV Input Current	27A*2 (Max. 45A)
BATTERY & CHARGING	
Battery Type	Lead-acid, Lithium, User-defined
Nominal Battery Voltage	48VDC
Max. AC Charging Current	200A
Max. Charging Current (AC+PV)	200A
GENERAL	
Communication	USB, RS232, BMS(485,CAN), WiFi Module, Dry-contact
Certification	EMC, LVD
PHYSICAL & ENVIRONMENT	
Dimension, D x W x H (mm)	147.4 x 432.5 x 553.6
Net Weight (kg)	18.4
Humidity	5% – 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