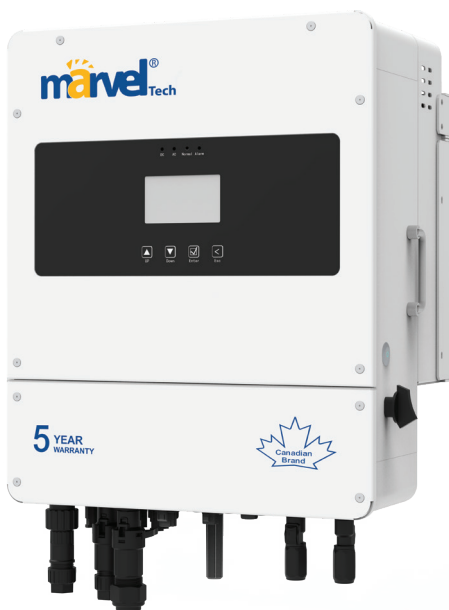


MHSI-01-LP1

3/5/6/8/10 KW

Product Features

- ▶ Support different power inverters parallel connection
- ▶ 20 PCS inverters parallel for off-grid operation
- ▶ Support on/off grid mode switch, EPS output
- ▶ Colorful 5-inch touch LCD, IP65 protection degree
- ▶ Support battery charging/discharging according to the time setting
- ▶ Independent AC input port for diesel generating
- ▶ Support storing energy from diesel generator
- ▶ ARC fault detection optional



| Technical Data | MHSI-3K-01LP1 | MHSI-5K-01LP1 | MHSI-6K-01LP1 | MHSI-8K-01LP1 | MHSI-10K-01LP1 |
|---|---|---------------|---------------|-------------------------------|----------------|
| Battery Input Data | | | | | |
| Battery Type | Lead-acid or Li-ion | | | | |
| Battery Voltage Range (V) | 40-60 | | | | |
| Max. Charge Current (A) | 70 | 140 | 190 | 190 | 210 |
| Max. Discharge Current (A) | 70 | 140 | 190 | 190 | 210 |
| Charging Curve | 3 Stages/Equalization | | | | |
| External Temperature Sensor | Optional | | | | |
| Charging Strategy for Li-Ion Battery | Self-Adaption to BMS | | | | |
| PV String Input Data | | | | | |
| Max. DC Input Power (W) | 4,500 | 7,500 | 9,000 | 12,000 | 15,000 |
| PV Input Voltage (V) | 370(125~500) | | | | |
| MPPT Range (V) | 150~425 | | | | |
| Start-up Voltage (V) | 120 | | | | |
| PV Input Current (A) | 17 | 17+17 | 17+17 | 26+26 | 26+26 |
| Max. PV Isc (A) | 20 | 20+20 | 20+20 | 34+34 | 34+34 |
| No. of MPPT Trackers | 1 | 2 | 2 | 2 | 2 |
| No. of String Per MPPT Tracker | 1 | 1+1 | 1+1 | 2+2 | 2+2 |
| AC Output Data | | | | | |
| Rated AC Output Power and UPS Power (W) | 3,000 | 5,000 | 6,000 | 8,000 | 10,000 |
| Max. AC Output Power (W) | 3,600 | 6,400 | 7,200 | 9,600 | 12,000 |
| Peak Power(off grid) | 2 times of rated power, 10s | | | 1.8 times of rated power, 10s | |
| AC Output Rated Current (A) | 13.65/13.05 | 22.7/21.7 | 27.3/26.1 | 34.5/33 | 45.5/43.5 |
| Max. AC Current (A) | 25/14.35 | 25/23.9 | 30/28.7 | 40/38.3 | 50.0/47.8 |
| Max. Continuous AC Passthrough (A) | 40 | 40 | 40 | 50 | 60 |
| Power Factor | 0.8 leading to 0.8 lagging | | | | |
| Output Frequency and Voltage | 50/60Hz,220/230Vac(single phase) | | | | |
| Grid Type | single phase | | | | |
| Current Harmonic Distortion | THD<3%(Linear load <1.5%) | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 97.90% | | | | |
| Euro Efficiency | 96.90% | | | | |
| MPPT Efficiency | 99.90% | | | | |
| Protection | | | | | |
| Integrated | PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection | | | | |
| PV ARC Fault Detection | Optional | | | | |
| Output Over Voltage Protection | DC Type II/AC Type III | | | | |
| Certification and Standards | | | | | |
| Grid Regulation | CEI 0-21,VDE-AR-N 4105,NRS 097,IEC61727,G99,G98,VDE 0126-1-1,RD1699,C10-11 | | | | |
| EMC/Safety Regulation | IEC/EN 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4 | | | | |
| General Data | | | | | |
| Operating Temperature Range(°C) | -45~60 ,>45 Derating | | | | |
| Cooling | Smart cooling | | | | |
| Noise(dB) | ≤45 | | | | |
| Communication with BMS | CAN, RS485 34 | | | | |
| Weight (kg) | 34 | | | | |
| Dimensions (mm) | 514W×749H×291D | | | | |
| Protection Degree | IP65 | | | | |
| Installation Style | Wall-mounted | | | | |