

# marvel<sup>®</sup> Tech

## MHSI-03LP1-6~10KW



### Efficient Higher Revenue

- Max. Efficiency 98%
- 2 MPP Trackers, 160% DC Input Oversizing
- Max. PV Input Current 20A, Compatible with High Power Modules
- 200% Peak Output Power at EPS Mode



### Intelligent Simple O&M

- IP66 Protection Degree
- SPD Type II: DC & AC
- Support AFCI Function (Optional)
- Support Smart I-V Curve Diagnosis Function



### Flexible Abundant Configuration

- EPS Switching Time <10ms
- Compatible With Lithium & Lead-acid Battery
- Support Work in Parallel Mode
- Support Diesel generator & Smart Load Connection



# Technical Data

	MHSI-6K-03LP1	MHSI-7K-03LP1	MHSI-8K-03LP1	MHSI-10K-03LP1
<b>Input (PV)</b>				
Max. PV Input Power	9kW	11.2kW	12.8kW	16kW
Max. PV Input Voltage	600V			
Start-up Voltage	100V			
MPPT Voltage Range	100V ~ 550V			
Number of MPP Trackers	2			
Number of Strings per MPPT	2 / 1			
Max. PV Input Current	40A / 20A			
<b>Output (AC)</b>				
Rated Output Power	6kW	7kW	8kW	10kW
Max. Output Active Power	6.6kW	7.7kW	8.8kW	11kW
Max. Output Current	30A	35A	40A	50A
Rated Voltage	230V			
Rated Frequency	50Hz / 60Hz			
THDi(@Rated Power)	< 3%			
Power Factor	0.8 leading ~ 0.8 lagging			
<b>Battery</b>				
Battery Type	Lithium, Lead-acid			
Battery Voltage Range	40V ~ 60V			
Max. Charge/Discharge Current	150A	160A	190A	210A
<b>Output (EPS)</b>				
Max. Output Power	6.6kVA	7.7kVA	8.8kVA	11kVA
Max. Output Current	30A	35A	40A	50A
Peak Output Power, Time	12kW,10s	14kW,10s	16kW,10s	20kW,10s
Rated Voltage	230V			
THDv(@Rated Power)	< 3%			
Switch Time	< 10ms			
<b>Efficiency</b>				
Max. Efficiency	98.00%			
European Efficiency	97.50%			
Battery Charge / Discharge Efficiency	97.00%			
<b>Protection</b>				
DC Reverse Polarity Protection	Yes			
Insulation Resistance Monitoring	Yes			
Ground Fault Monitoring	Yes			
Over Current / Over Voltage Protection	Yes			
Battery Soft Start Protection	Yes			
AFCI Protection	Yes			
Surge Protection	Type II			
<b>Communication</b>				
Display	LCD			
Communication	RS485 / CAN / WIFI / 4G / Bluetooth			
<b>General Data</b>				
Dimension (W x H x D)	440mm*530mm*250mm			
Operating Temperature Range	-30°C ~ +60°C			
Self-consumption	< 10W			
Topology	High Frequency Insolation (For Battery)			
Protection Degree	IP66			
Relative Humidity	0~100%			
Max. Operating Altitude	4000m			
Cooling Method	Smart Forced Air Cooling			