

marvel[®]Tech

MHSI-60K-03HP3

Features



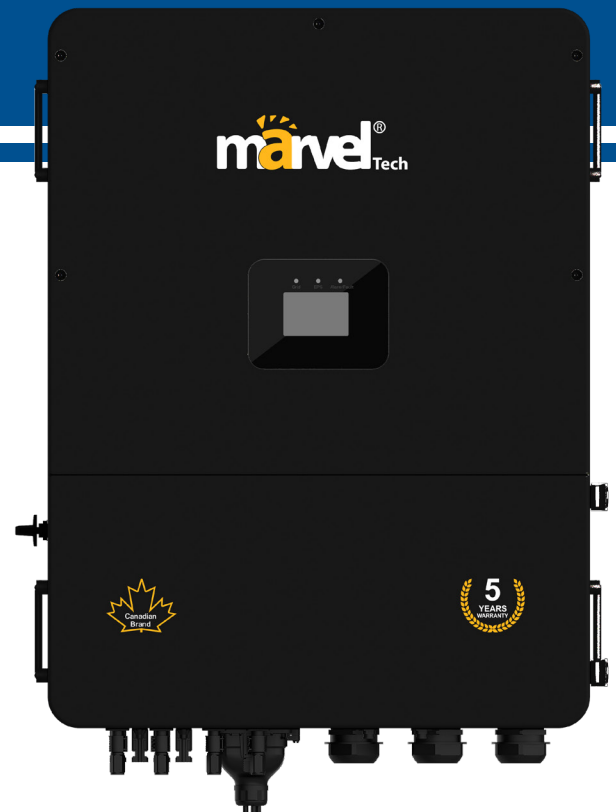
Efficient
Higher Revenue



Intelligent
Simple O&M



Flexible
Abundant Configuration



- 4 MPP Trackers, 150% DC input oversizing
- Max. PV input current 20A, compatible with high power PV modules
- Max. charge/discharge current 200A, 150% EPS peak output power
- IP66 protection
- DC&AC Type II SPD: prevent lightning damage
- Smart I-V curve diagnosis function: locate PV string faults accurately and automatically detect faults
- Support optional AFCI function
- EPS switching under 10ms
- Support multi-inverters in parallel
- Support 100% unbalanced output
- Standard generator interface, support for generator and smart load access

Specifications

Model

MHSI-50K-03HP3

MHSI-60K-03HP3

Input (PV)

Max. Input Power	75kW	90kW
Max. Input Voltage	1100V	
Start-up Voltage	200V	
Rated Voltage	620V	
MPPT Voltage Range	180V-900V	
Number of MPP Trackers	4	4
Number of String per MPPT	2	
Max. Current per MPPT	40A	
Max. Short Circuit Current per MPPT	60A	

Output (On-Grid)

Rated Output Power	50 kW	60 kW
Max. Output Power	55 kVA	66 kVA
Max. Output Current	83.4 A	100 A
Max. Input Power from Grid	75 kW	90 kW
Max. Input Current from Grid	114A	137A
Rated Grid Voltage	3 / N / PE, 230 V / 400 Vac	
Rated Grid Frequency	50Hz / 60Hz	
THDi(@Rated Power)	<3%	
Power Factor	>0.99(0.8 leading ~0.8 lagging)	

Battery

Battery Type	Lithium/ lead-acid	
Battery Voltage Range	160V - 800V	
Full-power Voltage Range	300V-800V	
Max. Charge / Discharge Power	55kW	66kW
Max. Charge / Discharge Current	2*100A	
Communication	CAN	

Output (EPS)

Rated Output Power	50kW	60kW
Max. Output Current	75.8 A	91 A
Peak Output Power, Time	1.5 times / 10s	
Switch Time	<10ms	
Rated Voltage	3 / N / PE, 230V / 400Vac	
Rated Frequency	50Hz / 60Hz	
Max. AC passthrough current	150A	

Output (Generator)

Max. Output Power	50kW	60kW
Max. Output Current	75.8A	91 A
Rated Voltage	3 / N / PE, 230V / 400Vac	
Rated Frequency	50Hz / 60Hz	

Efficiency

Max. Efficiency	98.40%	
European Efficiency	97.50%	
Battery Charge / Discharge Efficiency	97.50%	

Protection

Protection	DC Switch, DC Reverse Polarity Protection, Anti-islanding Protection, AC Short Circuit Protection, Residual Current Monitoring, Ground Fault Monitoring, Over Current /Voltage Protection, Battery Active Function, I-V Curve Scan	
Surge Protection	Type II	
AFCL Protection	Optional	

General Data

Display	LCD / LED	
Weight	92kg	
Dimension (W x H x D)	620 x 900 x 300 mm	
Operating Temperature Range	-30 ~ +60°C	
Cooling Method	Smart Cooling	
Protection Degree	IP66	
Max. Operating Altitude	4000m	
Noise	<60db	
Relative Humidity	0~100%	
Self-consumption	<60W	
Topology	Transformerless	