

MH3/4/6.2/8.6/11S-L



Robust Backup Power

- Seamless switching ≤ 10 ms
- 11 seconds of 150% backup peak power capability



Flexibility

- Multi-Type Battery Support
- Smart EMS with multiple energy control modes



Robust Safety Features

- Intelligent multi-protection mechanism



User-friendly Interface

- Segment LCD display
- Equipped with RS485 and WLAN interfaces



Type designation	MH3S-L	MH4S-L	MH6.2S-L	MH8.6S-L	MHT1S-L
Input (DC)					
Max. usable PV input power	5000 W	6500 W	8500 W	13000 W	15000 W
Max. PV input voltage	500 V				
Startup input voltage	80 V			90 V	
MPPT operating voltage range	60 V – 500 V			90 V – 500 V	
No. of independent MPP trackers	1			2	
No. of PV strings per MPPT	1			1/1	
Max. PV input current	18 A	27 A	27 A	27 A / 27 A	
Max. DC short-circuit current	27 A	40 A	40 A	40 A / 40 A	
Battery data					
Battery type	Li-ion battery / Lead-acid				
Battery voltage range	22.4 V to 30.5 V		44 V to 61 V	44 V to 61 V	
Max. charge / discharge current	120 A / 120 A			150 A / 150 A	
AC Input					
Max. AC power from grid	6900 W	6900 W	9200 W	18400 W	18400 W
Max. AC bypass current	30 A	30 A	40 A	80 A	80 A
Rated AC voltage	220 V / 230 V / 240 V				
AC voltage range	90 V – 280 V				
	170 V – 280 V (UPS Mode)				
Rated grid frequency	50 Hz / 60 Hz				
Grid frequency range	47 Hz – 53 Hz / 57 Hz – 62 Hz				
Backup Data					
Rated voltage	220 V / 230 V / 240 V				
Rated frequency	50 Hz / 60 Hz				
Rated output power	3000 W	4000 W	6200 W	8600 W	11000 W
Max. output power for backup load	3150 W	4200 W	6500 W	9000 W	11500 W
Max. AC output current	13 A	17 A	27 A	37 A	48 A
Backup switch time (UPS / Standard Mode)	10ms / 20ms				
Peak output power	11s @ 100 to 150% Load				
	2s @ 150 to 200% Load				
	0.4s @ >200% Load				
Efficiency					
Max. efficiency	95%		95.6%		
Protection & Function					
AC short-circuit protection	Yes				
Battery Over / Under voltage protection	Yes				
Over-temperature protection	Yes				
Overvoltage category	DC Type II / AC Type III				
General Data					
Topology (Inverter)	Non-isolated				
Degree of protection	IP21				
Dimensions (W * H * D)	310 mm * 484 mm * 115 mm			470 mm * 551 mm * 142 mm	
Weight	9 kg		11 kg	19 kg	
Mounting method	Wall-mounting bracket				
Operating ambient temperature range	-10 °C to 50 °C				
Allowable relative humidity range	20 to 95 %				
Cooling method	Fan cooling				
Display	Segment LCD display & LED indicator				
Communication ¹⁾	RS485, WLAN (Optional)				
DI / DO	DO * 1				
DC connection type (Cable Cross-section)	Screw terminal (Max. 6 mm ²)			MC4 compatible (max. 6 mm ²)	
Battery connection type (Cable Cross-section)	OT terminal (50 mm ²)		OT terminal (50 mm ²)	OT terminal (50~60 mm ²)	
AC connection type (Cable Cross-section)	Spring-type (Max. 6 mm ²)		Spring-type (Max. 10 mm ²)	Spring-type (Max. 12 mm ²)	
Grid compliance	IEC / EN 62109-1				

* Requires WiFi-MH2 communication module.