

MH6.2/8.6/11SP-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



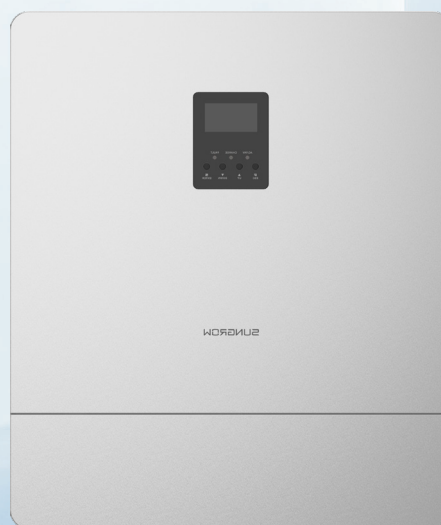
Robust Safety Features

- Intelligent multi-protection mechanism



User-friendly Interface

- Segment LCD display
- Equipped with RS485 and WLAN interfaces



Technical Data Sheet	MH6.2SP-L	MH8.6SP-L	MH11SP-L
Input (DC)			
Max. usable PV input power	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	27 A	27 A / 27 A	
Max. DC short-circuit current	40 A	40 A / 40 A	
Battery data			
Battery type	Li-ion battery / Lead-acid		
Battery voltage range	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	9200 W	18400 W	18400 W
Max. AC bypass current	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	6200 W	8600 W	11000 W
Max. output power for backup load	6500 W	9000 W	11500 W
Max. AC output current	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	95.6%		
Protection & Function			
AC short-circuit protection	Yes		
Battery over / under voltage protection	Yes		
Over-temperature protection	Yes		
Supports Single-to-Three-Phase Configuration	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	11 kg	19 kg	
Mounting method	Wall-mounting bracket		
Scalability	9 in parallel / 1 inverter		
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 ~ 60 mm ²)	
AC connection type (Cable Cross-section)	Spring-type (Max. 10 mm ²)	Spring-type (Max.12 mm ²)	
Grid compliance	IEC / EN 62109-1		

¹⁾ Requires WiFi-MH2 communication module.