

MH6S



Superior yield

- Features dual MPPTs supporting up to 22A input current, ideal for high-current PV modules
- 65-450V wide voltage range to capture more solar energy



Enhanced Safety

- Up to 45 system protection functions
- IP65 rated for all-weather outdoor use



Flexible application

- 6 units parallel connection for flexible system capacity adaptation
- 4 ESS Modes, flexible for different scenarios



User-friendly Interface

- Segment LCD display and touch button
- Equipped with RS485 and WLAN interfaces



Technical Data Sheet		MH6S
Input (DC)		
Max. usable PV input power		12000 W
Max. PV input voltage		500 V
Startup input voltage		60 V
MPPT operating voltage range		65 V to 450 V
No. of independent MPP trackers		2
No. of PV strings per MPPT		1 / 1
Max. PV input current		22 A / 22 A
Max. DC short-circuit current		33 A / 33 A
Battery data		
Battery type		Li-ion battery / Lead-acid
Battery voltage range		40 V to 60 V
Max. charge / discharge current		135 A / 135 A
Input / Output (AC)		
Max. AC power from grid		9200 W
Max. AC bypass current		40 A
Rated AC output power		6000 W
Max. AC output power		6200 W
Max. AC output current		27 A
Rated AC voltage		200 V / 208 V / 220 V / 230 V / 240 V
AC voltage range		90 V to 280 V
Rated grid frequency		50 Hz / 60 Hz
Grid frequency range		45 Hz – 55 Hz / 55 Hz – 65 Hz
Backup Data (on grid mode)		
Max. output power for backup load		6000 W
Max. output current for backup load		27 A
Backup Data (off-grid mode)		
Rated voltage		208 / 220 V / 230 V / 240 V
Rated frequency		50 Hz / 60 Hz
Backup switch time		≤ 10 ms
Rated output power		6000 W
Max. AC output current		27 A
Peak output power		1.3 times of rated power , 10s
Efficiency		
Max. efficiency		97.5%
Protection & Function		
Grid monitoring		Yes
Leakage current protection		Yes
Surge protection		DC Type II / AC Type II
General Data		
Topology (Inverter)		Non-isolated
Degree of protection		IP65
Dimensions (W * H * D)		300 mm * 460 mm * 217 mm
Weight		≤ 17.5 kg
Mounting method		Wall-mounting bracket
Scalability		6 in parallel / 1 inverter
Operating ambient temperature range		-25 °C to 60 °C
Allowable relative humidity range		5 to 95%
Cooling method		Fan cooling
Max. operating altitude		2000 m
Display		Segment LCD display & LED indicator
Communication ¹⁾		CAN, RS485, WLAN
DI / DO		DI * 1 / DO * 1
DC connection type (Cable Cross-section)		MC4 compatible (Max. 6 mm ²)
Battery connection type (Cable Cross-section) ²⁾		OT terminal (35 mm ² – 50 mm ²)
AC connection type (Cable Cross-section)		Plug and Play (Max. 8 mm ²)
Grid compliance		IEC 62109-1/-2, IEC/EN 61000-6-1/-3

¹⁾ Requires WiFi-MH1 communication module.

²⁾ Cable sizes are based on rated power. For other cable specifications, ensure the OT terminal fixing hole diameter is 6mm or 8mm.