

4-12kW Hybrid Inverter

MHT-4/5/6/8/10/12K-25

98.2%

Max. Efficiency

15A

PV Input Current

110%

Unbalanced Output

10ms

UPS-level Switch

Residential

Three-Phase

HV Battery

2 MPPTs



Maximized Energy Harvesting

- 150% DC oversizing boosts solar capture
- 110% unbalanced output enhances self-consumption
- Continuous 110% AC overloading sustains power
- 10ms UPS-level switch secures supply



Engineered for Versatility

- Wide 135-750V range fits diverse batteries
- 200% max backup @60s handles overloads
- IP65 protects both indoors and outdoors
- Silent 25dB operation for comfort



Simplified Interaction

- Remote upgrades maintain system health
- Solinteg I-light for quick status checks
- OLED and App for easy control



Intelligent Energy Dynamics

- Five work modes for diverse use
- Six charge/discharge intervals optimize control
- Centralized smart management for efficiency

Integ M Series

The Power Master

Model	MHT-4K-25	MHT-5K-25	MHT-6K-25	MHT-8K-25	MHT-10K-25	MHT-12K-25
PV Input						
Recommended Max. input power [kW]	6.0	7.5	9.0	12.0	15.0	18.0
Start-up voltage [V]	135	135	135	135	135	135
Max. DC input voltage* [V]	1000*	1000*	1000*	1000*	1000*	1000*
Rated DC input voltage [V]	620	620	620	620	620	620
MPPT voltage range* [V]	120-950*	120-950*	120-950*	200-950*	200-950*	200-950*
No. of MPP trackers	2	2	2	2	2	2
No. of DC inputs per MPPT	1/1	1/1	1/1	1/1	1/1	1/1
Max. input current [A]	15/15	15/15	15/15	15/15	15/15	15/15
Max. short-circuit current [A]	20/20	20/20	20/20	20/20	20/20	20/20
Battery Side						
Battery type	Lithium Battery (with BMS)					
Battery voltage range [V]	135-750					
Maximum charging/discharge current [A]	25/25					
Grid Side						
Rated output power [kW]	4.0	5.0	6.0	8.0	10.0	12.0
Max. output apparent power [kVA]	4.4	5.5	6.6	8.8	11.0 ¹⁾	13.2
Max. input apparent power** [kVA]	8.0	10.0	12.0	16.0	16.5	16.5
Max. charging power of battery [kW]	4.0	5.0	6.0	8.0	10.0	12.0
Rated AC voltage	3L/N/PE; 220/380V;230/400V;240/415V					
Rated AC frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Max. output current [A]	6.7	8.3	10.0	13.3	16.5 ²⁾	20.0
Power factor	0.8 leading ... 0.8 lagging					
Max. total harmonic distortion	<3% @Rated output power					
DCI	<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In
Back-up Side						
Rated output power [kW]	4.0	5.0	6.0	8.0	10.0	12.0
Max. output apparent power [kVA]	4.4	5.5	6.6	8.8	11.0	13.2
Max. output current [A]	6.7	8.3	10.0	13.3	16.5	20.0
UPS switching time	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
Rated output voltage	3L/N/PE; 220/380V;230/400V;240/415V					
Rated output frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Voltage harmonic distortion	<3% @Linear load					
Efficiency						
Max. efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
European efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
Protection						
DC reverse polarity protection	Integrated					
Battery input reverse connection protection	Integrated					
Insulation resistance protection	Integrated					
Surge protection	Integrated					
Over-temperature protection	Integrated					
Residual current protection	Integrated					
Islanding protection	Integrated					
AC over-voltage protection	Integrated					
Overload protection	Integrated					
AC short-circuit protection	Integrated					
General Data						
Over voltage category	PV: II Main: III					
Dimensions [W×H×D mm]	534×418×210					
Weight [KG]	26.0					
Protection degree	IP65					
Standby self-consumption [W]	<15					
Topology	Transformerless					
Operating Temperature Range [°C]	-30~60					
Relative Humidity [%]	0~100					
Operating Altitude [m]	3000 (>3000m derating)					
Cooling	Natural Convection					
Noise Level [dB]	<25					
Display	OLED & LED					
Communication	CAN, RS485, WiFi/LAN (Optional)					

* PV Max. Input voltage is 950V without battery, or 850V with battery, otherwise inverter will be waiting;

** Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery;

1) G98: 10.5kVA; 2) G98: 16.00A