Hybrid Inverter 4-12kW

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

15A	110%	25A
Max. PV Input Current	Unbalanced Output	Max. Charge/Discharge

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
- Smooth transition to backup power ensures continuity during power outages

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

Intelligent Energy Dynamics

- Five work modes for diverse use
- Supports both ToU and dynamic pricing strategies for optimized energy use and cost savings
- Centralized smart management for efficiency

Simplified Interaction

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

Integ M Series

The Power Master

EN-MHT-4-12-NO1.01-2025

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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]	6.00	7.50	9.00	12.00	15.00	18.00
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]	4.00	5.00	6.00	8.00	10.00	12.00
Max. Output Apparent Power	[kVA]	4.40	5.50	6.60	8.80	11.00[1)]	13.20
Max. Input Apparent Power**	[kVA]	8.00	10.00	12.00	16.00	16.50	16.50
Max. Charging Power of Battery	[kW]	4.00	5.00	6.00	8.00	10.00	12.00
Rated AC Voltage	[V]	3L/N/PE; 220/380V;230/400V;240/415V					
Rated AC Frequency	[Hz]	50/60					
Max. Output Current	[A]	6.70	8.30	10.00	13.30	16.50[2)]	20.00
Power Factor		0.8 leading …0.8 lagging					
Max. Total Harmonic Distortion		<3% @Rated output power					
DCI		<0.5%In					
Back-up Side							
Rated Output Power	[kW]	4.00	5.00	6.00	8.00	10.00	12.00
Max. Output Apparent Power	[kVA]	4.40	5.50	6.60	8.80	11.00	13.20
Max. Output Current	[A]	6.70	8.30	10.00	13.30	16.50[2)]	20.00
On/Off-grid Switching Time	[ms]	<10ms					
Rated Output Voltage	[V]	3L/N/PE; 220/380V;230/400V;240/415V					
Rated Output Frequency	[Hz]	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							
Integrated Protection		DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection					
General Data							
Over Voltage Category		PV: II Main: III					
Dimensions	[W×H×D mm]	534×418×210					
Weight	[KG]	26					
Protection Degree		IP65					
Standby Self-consumption	[W]	<15					
Topology		Transformerless					
Operating Temperature Range	[℃]	-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

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