

4-12kW Hybridwechselrichter

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

98.2% | 15A | 110% | 10ms

Max efficiency

Max. PV input current

Three-phase unbalanced load

UPS uninterrupted power supply

For private households

Dreiphasig

high voltage

2 MPPTs



Optimal Performance & Storage

- Max. Efficiency 98.2%
- Max. PV input current 15A ,2 MPP trackers
- Up to 110% three-phase unbalance



Heavy load & back-up

- Up to 110% line-dependent output overload
- Max. 200% back-up output overload for 60s
- 150% DC oversize



Convenient installation & operation

- Plug-play terminals for easy wiring
- Solinteg I light, power and alarm display
- Easy data verification through OLED display and app



Flexible Design & Use

- 135-750V ultra-wide battery voltage range
- IP65 for indoor and outdoor use
- Compact size and elegant appearance

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 data							
Recommended maximum input power	[kW]	6.0	7.5	9.0	12.0	15.0	18.0
starting voltage	[IN]	135	135	135	135	135	135
Maximum DC input voltage*	[IN]	1000*	1000*	1000*	1000*	1000*	1000*
Nominal DC input voltage	[IN]	620	620	620	620	620	620
MPPT voltage range*	[IN]	120-950* 2	120-950* 2	120-950* 2	200-950* 2	200-950* 2	200-950*
Number of MPPTs							2
Number of input channels from single MPPT Maximum		1/1	1/1	1/1	1/1	1/1	1/1
input current Max short circuit	[A]	15/15	15/15	15/15	15/15	15/15	15/15
current	[A]	20/20	20/20	20/20	20/20	20/20	20/20
Battery parameters							
Battery type		Lithium battery (with BMS)					
Voltage range Max	[IN]	135-750					
current for charging/discharging	[A]	25/25					
AC data(grid side)							
Rated output power	[kW]	4.0	5.0	6.0	8.0	10.0	12.0
Maximum apparent grid-tied output power [kVA] [kVA]		4.4	5.5	6.6	8.8	11.01)	13.2
Maximum apparent output power**		8.0	10.0	12.0	16.0	16.5	16.5
Max. charging capacity of the battery	[kW]	4.0	5.0	6.0 8.0 3L/N/PE;		10.0	12.0
Nominal voltage		220/380V;230/400V;240/415V					
Mains frequency	[Hz]	50/60	50/60	50/60 50/60 10.0 13.3		50/60	50/60
Max. output current Power	[A]	6.7	8.3			16.52)	20.0
factor Max.		0.8 ahead ..0.8 back					
distortion factor		<3% @rated power					
DC component AC data (off-grid side)		<0.5%In	<0.5%In	<0.5%In <0.5%In		<0.5%In	<0.5%In
grid side)							
Rated output power	[kW]	4.0	5.0	6.0	8.0	10.0	12.0
Maximum apparent output power [A]		4.4	5.5	6.6	8.8	11.0	13.2
Max output current		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 AC frequency Voltage	[Hz]	50/60	50/60	50/60 50/60 <3% @lineare Last		50/60	50/60
harmonic distortion							
Efficiency data							
Max. PV efficiency EU		98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
efficiency protection		97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
properties							
Reverse polarity protection for PV input		Integrated					
Reverse polarity protection for battery input		Integrated					
Isolation impedance protection		Integrated					
Over voltage protection		Integrated					
Over temperature protection		Integrated					
leakage current protection		Integrated					
Anti-Islanding Protection		Integrated					
AC Surge Protection Overload protection		Integrated					
		Integrated					
short circuit protection		Integrated					
General data							
overvoltage category		PV: II Main: III					
Dimensions	[W×H×D mm]	534×418×210					
Weight	[KG]	26.0					
degree of protection		IP65					
standby loss	[IN]	<15					
Topology		Transformer loser Type					
operating temperatur	[°C]	-30~60					
Relative humidity	[%]	0~100					
operating altitude	[m]	3000 (>3000m reduce load)					
Kühlart		Natural air cooling					
noise index	[dB]	<25					
Display		OLED & LED					
Communication		CAN, RS485, WiFi/LAN (Optional)					

* PV max. The input voltage is 950V without battery or 850V with battery, otherwise the inverter will wait;
** Maximum mains input power refers to the maximum power that can be drawn from the mains, including powering off-grid loads and the battery charge;

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