10-20kW hybrid inverter

MHT-10/12/15/20K-40

98.4%	40A	110%	10ms
Max efficiency	Max current for charging/discharging	Three-phase unbalanced load	UPS uninterrupted power supply

For business	Dreiphasig	high voltage	2 MPPTs

Optimal Performance & Storage

- Max. Efficiency 98.4%
- Max. PV input current 30A, 2 MPP trackers
- Up to 110% three-phase unbalanced load •Max. Battery charge/discharge current 40

Heavy load & back-up •Up to 110% line-dependent output overload •Max. 200% back-up output overload for 60s •UPS level switching within 10ms •150% DC oversize

Convenient installation & operation •Plug-play terminals for easy wiring •Solinteg I light, power and alarm display •Easy data verification by OLED display and app •Easy WIFI configuration by app

Flexible Design & Use •135-750V ultra-wide battery voltage range •IP65 for indoor and outdoor use •Support up to 10 devices

- Compact size and elegant appearance

Integ M Series

The power master

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www.solinteg.com

Model		MHT-10K-40	MHT-12K-40	MHT-15K-40	MHT-20K-40
PV input data					
Recommended maximum input power	[kW]	15.0	18.0	22.5	30.0
starting voltage	[IN]	135	135	135	135
Maximum DC input voltage*	[IN]	1000*	1000*	1000*	1000*
Nominal DC input voltage	[IN]	620	620	620	620
MPPT voltage range*	[IN]	200-950* 2	200-950* 2	200-950* 2	200-950*
Number of MPPTs					2
Number of input channels from single MPPT Maximum		2/2	2/2	2/2	2/2
input current Max short circuit	[A]	30/30	30/30	30/30	30/30
current	[A]	40/40	40/40	40/40	40/40
Battery parameters					
Battery type		Lithium battery (with BMS)			
Voltage range Max	[IN]	135-750			
current for charging/discharging	[A]	40/40			
AC data(grid side)					
Rated output power	[kW]	10.0	12.0	15.0	20.0
Maximum apparent grid-tied output power [kVA] [kVA]		11.01)	13.2	16.53)	22.0
Maximum apparent output power**		20.0	24.0	30.0	30.0
Max. charging capacity of the battery	[kW]	10.0	12.0	15.0	20.0
Nominal voltage		3L/N/PE; 220/380V;230/400V;240/415V			
Mains frequency	[Hz]	50/60	50/60	50/60	50/60
Max. output current Power	[A]	16.52)	20.0	25.04)	33.5
factor Max.		0.8 ahead ...0.8 back			
distortion factor		<3% @rated power			
DC component AC data (off-		<0.5%In	<0.5%In	<0.5%In	<0.5%In
grid side)					
Rated output power	[kW]	10.0	12.0	15.0	20.0
Maximum apparent output power [A]	[kVA]	11.0	13.2	16.5	22.0
Max output current		16.5	20.0	25.0	33.5
UPS switching time		<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
harmonic distortion		<3% @lineare Last			
Efficiency data					
Max. PV efficiency EU		98.4%	98.4%	98.4%	98.4%
efficiency protection		97.5%	97.5%	97.5%	97.5%
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]	28.0 (10-12kW) / 31.0 (15-20kW)			
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		Intelligent fan			
noise index	[dB]	<40			
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; 3) AS 4777.2: 15.0kVA; 4) AS 4777.2: 21.7A