

# Integ M Series

- The Power Master -



## 10-20KW Hybrid Inverter

| Commercial | Three Phase | HV Battery | 2 MPPTs |

**98.4%**

Max. Efficiency

**40A**

Charge/Discharge Current

**10ms**

UPS-level Switching

**110%**

Unbalanced Load



### Talented

- 98.4% max. efficiency
- 135-750V super wide battery voltage range
- Within 10ms UPS-level switching
- Max. 40A charge/discharge current
- Max. 15A PV input current



### Powerful

- Up to 110% unbalanced load
- Up to 125% AC output overloading
- Max. 200% back-up output overloading @60s
- Parallel operation capacity with max. 10 units



### Reliable

- IP65 protection degree
- Compact and elegant design with integrated die-casting technology
- Long-term efficient operation with advanced heat dissipation design
- Outstanding working performance thanks to Solinteg MORE platform

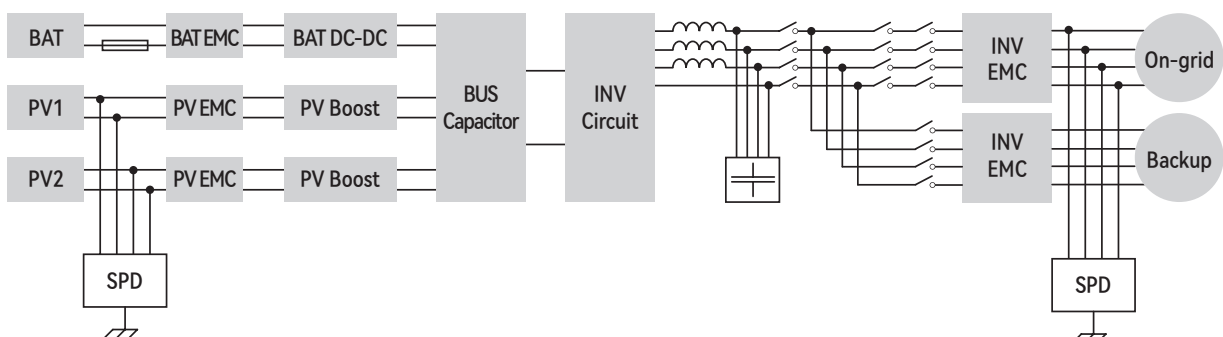


### Friendly

- Convenient installation and O&M with horizontal design and quick plug terminals
- Easy data check via both OLED display and App
- Intelligent energy management with Solinteg built-in EMS
- Easy Wifi configuration via App



### Circuit Diagram



Type Designation	MHT-10K-40	MHT-12K-40	MHT-15K-40	MHT-20K-40
<b>PV Input</b>				
Max. Input Power (kW)	15.0	18.0	22.5	30.0
Start-up Voltage (V)	135	135	135	135
Max. DC Input Voltage (V)*	1000	1000	1000	1000
Rated DC Input Voltage (V)	620	620	620	620
MPPT Voltage Range (V)	200-950	200-950	200-950	200-950
No. of MPP Trackers	2	2	2	2
No. of DC Inputs per MPPT	2/2	2/2	2/2	2/2
Max. Input Current (A)	30/30	30/30	30/30	30/30
Max. Short-circuit Current (A)	40/40	40/40	40/40	40/40
<b>Battery Side</b>				
Battery Type	Lithium Battery (with BMS)			
Battery Voltage Range (V)	135-750			
Max. Charge/Discharge Current (A)	40/40			
<b>Grid Side</b>				
Rated Output Power (kW)	10.0	12.0	15.0	20.0
Max. Output Apparent Power (kVA)	11.0	13.2	16.5/15.0 <sup>1)</sup>	22.0
Max. Input Apparent Power (kVA)**	20.0	24.0	30.0	30.0
Max. Charging Power of Battery (kW)	10.0	12.0	15.0	20.0
Rated AC Voltage (V)	3L/N/PE; 220/380V; 230/400V; 240/415V			
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	16.5	20.0	25.0/21.7 <sup>2)</sup>	33.5
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
<b>Back-up Side</b>				
Rated Output Power (kW)	10.0	12.0	15.0	20.0
Max. Output Apparent Power (kVA)	11.0	13.2	16.5	22.0
Max. Output Current (A)	16.5	20.0	25.0	33.5
UPS Switching Time	<10ms	<10ms	<10ms	<10ms
Rated Output Voltage (V)	3/N/PE; 220/380V; 230/400V; 240/415V			
Rated Output Frequency (Hz)	50/60	50/60	50/60	50/60
Peak Output Apparent Power (kVA)***	20, 60s	20, 60s	25, 60s	25, 60s
Voltage Harmonic Distortion	<3% @Linear load			
<b>Efficiency</b>				
Max. Efficiency	98.4%	98.4%	98.4%	98.4%
European Efficiency	97.5%	97.5%	97.5%	97.5%
<b>Compliance</b>				
IEC/EN 62109, IEC/EN 61000, EN50549-1, TOR Generator Type A, VDE-AR-N-4105				

<b>Protection</b>	
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 (Frequency shift)
AC Over-voltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated

<b>General Data</b>	
Over Voltage Category	PV: II; Main: III
Dimensions (W×H×D mm)	534×418×210
Weight (KG)	27.0
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	Smart Fan
Noise Level (dB)	<40
Display	OLED & LED
Communication	CAN, RS485, WiFi/LAN (Optional)

\* Max. operating DC voltage is 950V, max. withstanding DC voltage is 1000V

\*\* 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

\*\*\* The output power will exceed the rated value only when the power in the PV array is sufficient, and the duration of the overload is related to the overload power

1) AS 4777.2: 15.0kVA; 2) AS 4777.2: 21.7A