



Hybrid Inverter 25-50kW

MHT-25/30/36/40/50K-100

30A

Max. PV Input Current

100%

Unbalanced Output

100A

Max. Charge/Discharge

Commercial | Three Phase | HV Battery | 4 MPPTs



Maximized Energy Harvesting

- 100% unbalanced output enhances self-consumption
- 100A charging/discharging for efficient energy transfer
- Continuous 110% AC overloading sustains power
- Starts at 135V for more generation time
- Smooth transition to backup power ensures continuity during power outages



Engineered for Versatility

- Max. 10 pcs parallel for on-grid operation and max. 4 pcs parallel for off-grid operation
- 135% max backup @10s handles overloads
- IP65 protects both indoors and outdoors



Intelligent Energy Dynamics

- 7 workmodes for diverse use
- Supports both ToU and dynamic pricing strategies for optimized energy use and cost savings
- Centralized smart management for efficiency
- Supports diesel generators for diverse energy sourcing



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



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Models		MHT-25K-100	MHT-30K-100	MHT-36K-100	MHT-40K-100	MHT-50K-100
PV Side						
Max. PV Array Power	[kWp]	40	48	57.6	64	80
Max. PV Input Voltage *	[V]	1000*				
Rated PV Input Voltage	[V]	620				
Start-up Voltage	[V]	135				
MPPT Operating Voltage Range *	[V]	200-850*	200-850*	200-850*	200-850*	200-850*
No. of MPP Trackers		4	4	4	4	4
No. of Strings per MPPT		2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2
Max. Input Current per MPPT		30/30/30/30	30/30/30/30	30/30/30/30	30/30/30/30	30/30/30/30
Max. Short-circuit Current per MPPT	[A]	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40
Battery Side						
Battery Type						
Battery Voltage Range		Litnum-lion				
No. of Battery Input	[V]	135-750				
Max. Charging/Discharge Current		1				
Max. Charging/Discharge Power	[A]	100/100				
Grid Side (On-Grid)	[W]	25/25	30/30	36/36	40/40	50/50
Rated Output Power						
Max. Output Apparent Power	[kW]	25.	30.	36.0	40.	50.0
Rated AC Voltage	[kVA]	0	0	39.6	0	55.0
Rated AC Frequency	[V]	27.	33(	3L/N/PE; 220/380V; 230/400V; 240/415V	44.	
Rated Output Current	[Hz]	5	1)	50/60	0	
Max. Output Current	[A]	37.9/36.2/34.7	45.5/43.5/41.7	54.5/52.1/50	60.6/58/55.6	75.8/72.5/69.4
Power Factor	[A]	42.0	50(2)	60.0	66.0	83.0
THDi (@Rated Power)		0.8 leading ...0.8 lagging				
Max. Input Apparent Power **		<3%				
Rated AC Voltage	[kVA]	30.0	36.0	43.5	48.0	60.0
Rated AC Frequency	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Max. AC Input Current	[Hz]	50/60				
Back-up Side (Off-Grid)	[A]	65.9				
Rated Output Power		45.5	54.5		72.7	90.9
Peak Output Apparent Power						
Rated Output Voltage	[kW]	25.0	30.0	36.0	40.0	50.0
Rated Output Frequency	[kVA]	33.75 @10s	40.5 @10s	48.6 @10s	54 @10s	67.5 @10s
Rated Output Current	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
On/Off-grid Switching Time	[Hz]	50/60				
THDv (@Linear Load)	[A]	37.9/36.2/34.7	45.5/43.5/41.7	54.5/52.1/50	60.6/58/55.6	75.8/72.5/69.4
Generator Side	[ms]	< 10ms				
Max. Input Apparent Power		<3%				
Rated Input Voltage						
Rated Input Frequency	[kVA]	30	36	43.5	48	60
Max. Input Current	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Efficiency	[Hz]	50/60				
MPPT Efficiency	[A]	45.5	54.5	65.9	72.7	90.9
Max. Efficiency						
European Efficiency		99.90				
Protection						
		%				
		98.80				
		%				
		98.30				
Integrated Protection		DCreversepolarityprotection/Batteryinputreverseconnectionprotection/Insulationresistance protection / Surgeprotection(DC/AC:Typell/Typell)/Over-temperatureprotection/Residualcurrent protection / Islandingprotection/ACover-voltageprotection/Overloadprotection/ACshort-circuit protection				
General Data						
Dimensions	[W×H×D mm]	800*620*300				
Weight	[KG]	72				
Ingress Protection		IP65				
Standby Self-consumption	[W]	< 40				
Topology		Transformerless				
Operating Temperature Range	[°C]	-30~60				
Relative Humidity	[%]	0~100				
Max. Operation Altitude	[m]	3000				
Over Voltage Category		II(PV+Battery), III(Mains)				
Cooling		Smart Fan				
Noise Level		< 65				
Display	[dB]	LED & OLED				
Communication		CAN, RS485				

*PV Max. Input voltage is 850V, 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) VDE-AR-N 4105: 30.0kVA; (2) VDE-AR-N 4105: 43.5A;

