



Hybrid Inverter 75-125kW

M2HT-75/80/99/100/125K-300

48A

Max. PV Current per MPPT

100%

Unbalanced Output

300A

Max. Charge/Discharge

Commercial | Three Phase | HV Battery | 6 MPPTs



Enhanced Power & Performance

- 150% backup power @10s
- 100% unbalanced load support
- Up to 200% grid input power support



Solar & Energy Optimization

- PV input current up to 24A per string
- 200% DC oversizing boosts efficiency
- High charging/discharging current
- Versatile applications for all scenarios



System Integration & Flexibility

- Parallel operation supports both off-grid and on-grid
- Half-wave load compatibility for stable performance
- Third-party EMS & BMS compatibility



Intelligent Control & Maintenance

- 6 built-in operating modes optimize energy use
- Dynamic pricing mode maximizes cost efficiency
- Remote upgrade ensures fast updates
- Precise export limitation prevents grid backfeed



Integ M Series

The Power Master

Hybrid Inverter 75-125kW

Models		M2HT-75K-300	M2HT-80K-300	M2HT-99K-300	M2HT-100K-300	M2HT-125K-300
PV Side						
Max. PV Array Power	[kWp]	150	160	200	200	250
Max. PV Input Voltage *	[V]	1000*				
Rated PV Input Voltage	[V]	620				
Start-up Voltage	[V]	180				
MPPT Operating Voltage Range *	[V]	160-950*	160-950*	160-950*	160-950*	160-950*
No. of MPP Trackers		6	6	6	6	6
No. of Strings per MPPT		2	2	2	3	3
Max. Input Current per MPPT	[A]	6 x 42	6 x 42	6 x 48	6 x 48	6 x 48
Max. Short-circuit Current per MPPT	[A]	6 x 55	6 x 55	6 x 60	6 x 60	6 x 60
Battery Side						
Battery Type		Lithium-lion				
Battery Voltage Range	[V]	150-950				
No. of Battery Input		2				
Max. Charge/Discharge Current	[A]	150+150/150+150				
Max. Charge/Discharge Power	[kW]	75/75	80/80	100/100	100/100	125/125
Grid Side (On-Grid)						
Rated Output Power	[kW]	75.0	80.0	99.0	100.0	125.0
Max. Output Apparent Power	[kVA]	75.0	80.0	99.0	100.0	125.0
Rated AC Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency	[Hz]	50/60				
Rated Output Current	[A]	113.9/108.3/104.3	121.6/115.5/111.1	150.4/1142.9/137.7	151.9/144.3/139.1	189.9/180.4/173.9
Max. Output Current	[A]	113.9	121.6	150.4	151.9	189.9
Power Factor		0.8 leading ...0.8 lagging				
THDi (@Rated Power)		<3%				
Max. Input Apparent Power **	[kVA]	150.0	150.0	160.0	160.0	180.0
Rated AC Voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC Frequency	[Hz]	50/60				
Max. AC Input Current	[A]	227.8	227.8	243.1	243.1	273.4
Back-up Side (Off-Grid)						
Rated Output Power	[kW]	75.0	80.0	99.0	100.0	125.0
Peak Output Apparent Power	[kVA]	135 @10S	135 @10S	160 @10S	160 @10S	187.5 @10S
Rated Output Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Output Frequency	[Hz]	50/60				
Rated Output Current	[A]	113.9/108.3/104.3	121.6/115.5/111.1	150.4/1142.9/137.7	151.9/144.3/139.1	189.9/180.4/173.9
On/Off-grid Switching Time	[ms]	< 20ms				
THDv (@Linear Load)		<3%				
Efficiency						
MPPT Efficiency		99.90%				
Max. Efficiency		98.80%				
European Efficiency		98.30%				
Protection						
Integrated Protection		DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC/AC: Type II/Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection				
General Data						
Dimensions	[W*H*D mm]	1226*932*356				
Weight	[KG]	168				
Ingress Protection		IP66				
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				
Display		LED & OLED				
Communication		CAN, RS485				

* Max. PV input voltage is 950V, otherwise inverter will be waiting;

** Max input apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery;