

Hybrid Inverter 10-30kW

M2HT-9.9/10/15/20/24.9/25/29.9/30K-80

20A	110%	80A
Max. PV Input Current	Unbalanced Output	Max. Charge/Discharge

Commercial | Three Phase | HV Battery | 4 MPPTs

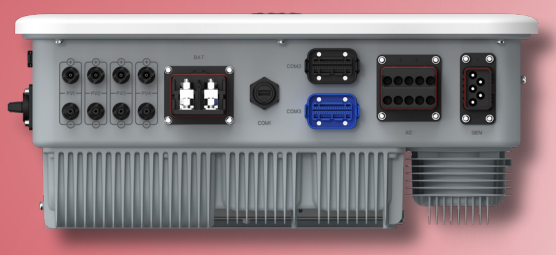


Maximum Yield & Power

- 120V low start-up maximizes daily generation hours
- Four independent MPPTs perfectly master complex roofs
- Up to 200% peak backup output drives inductive loads

Battery & System Expansion

- Dual independent 40A battery ports for flexibility
- 80A ultra-fast charging recovers backup energy rapidly
- Easily scale up with 10 parallel units



Advanced Backup & Reliability

- Ensure seamless backup with under 10ms switching
- Native generator control ensures continuous on-grid supply
- 120% surge capacity for 60s secures heavy loads

Smart Energy Management

- Profit from 15-min dynamic pricing and ToU
- Intelligent smart load control optimizes electricity bills
- Handle half-wave loads seamlessly without system tripping

Integ M Series

The Power Master

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Models		M2HT-9.9K-80	M2HT-10K-80	M2HT-15K-80	M2HT-20K-80	M2HT-24.9K-80	M2HT-25K-80	M2HT-29.9K-80	M2HT-30K-80
PV Side									
Max. PV Array Power	[kW]	20	20	30	40	50	50	50	50
Max. PV Input Voltage *	[V]	1000							
Rated PV Input Voltage	[V]	620							
Start-up Voltage	[V]	120							
MPPT Operating Voltage Range *	[V]	120-950							
No. of MPP Trackers		4	4	4	4	4	4	4	4
No. of Strings per MPPT		1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1
Max. Input Current per MPPT		20/20/20/20	20/20/20/20	20/20/20/20	20/20/20/20	20/20/20/20	20/20/20/20	20/20/20/20	20/20/20/20
Max. Short-circuit Current per MPPT		25/25/25/25	25/25/25/25	25/25/25/25	25/25/25/25	25/25/25/25	25/25/25/25	25/25/25/25	25/25/25/25
Battery Side									
Battery Type		Lithium Battery (with BMS)							
Battery Voltage Range	[V]	130-900							
No. of Battery Input		2							
Max. Charging/Discharging Current	[A]	40*2/40*2							
Max. Charging/Discharging Power	[kW]	9.9/9.9	10/10	15/15	20/20	24.9/24.9	25/25	29.9/29.9	30/30
Grid Side (On-Grid)									
Rated Output Power	[kW]	9.9	10.0	15.0	20.0	24.9	25.0	29.9	30.0
Max. Output Apparent Power	[kVA]	9.9	10.0	15.0	20.0	24.9	25.0	29.9	30.0
Rated AC Voltage		3L/N/PE; 220/380V;230/400V;240/415V							
Rated AC Frequency	[Hz]	50/60							
Rated Output Current	[A]	15.2/14.5/13.9	15.2/14.5/13.9	22.7/21.7/20.8	30.3/29/27.8	37.7/36.1/34.6	37.9/36.2/34.7	45.3/43.3/41.5	45.5/43.5/41.7
Max. Output Current	[A]	17.6	17.6	26.2	35.0	43.5	43.8	52.3	52.6
Power Factor		0.8 leading …0.8 lagging							
THDi (@Rated Power)		<3%							
Max. Input Apparent Power**	[kVA]	20.0	20.0	30.0	40.0	50.0	50.0	60.0	60.0
Rated AC Voltage		3L/N/PE; 220/380V;230/400V;240/415V							
Rated AC Frequency	[Hz]	50/60							
Max. AC Input Current	[A]	30.3	30.3	45.5	60.6	75.8	75.8	90.9	90.9
Back-up Side (Off-Grid)									
Rated Output Power	[kW]	9.9	10.0	15.0	20.0	24.9	25.0	29.9	30
Peak Output Apparent Power	[kVA]	24 @10s	24 @10s	24 @10s	48 @10s	48 @10s	48 @10s	48 @10s	48 @10s
Rated AC Voltage		3L/N/PE; 220/380V;230/400V;240/415V							
Rated Output Frequency	[Hz]	50/60							
Rated Output Current	[A]	15.2/14.5/13.9	15.2/14.5/13.9	22.7/21.7/20.8	30.3/29/27.8	37.7/36.1/34.6	37.9/36.2/34.7	45.3/43.3/41.5	45.5/43.5/41.7
On/Off-grid Switching Time		< 10ms							
THDv (@Linear Load)		<3%							
Generator Side									
Max. Input Apparent Power	[kVA]	12.0	12.0	18.0	24.0	29.9	30.0	35.9	36.0
Rated Input Voltage	[V]	3L/N/PE; 220/380V;230/400V;240/415V							
Rated Input Frequency	[Hz]	50/60							
Max. Input Current	[A]	18.2	18.2	27.3	36.4	45.3	45.5	54.4	54.5
Efficiency									
MPPT Efficiency		99.90%							
Max. Efficiency		97.70%							
European Efficiency		97.20%							
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]	587×535×238							
Weight	[KG]	38.5							
Ingress Protection		IP66							
Standby Self-consumption	[W]	<15							
Topology		Transformerless							
Operating Temperature Range	[℃]	-30~60							
Relative Humidity	[%]	0~100							
Max. Operation Altitude	[m]	3000							
Over Voltage Category		II(PV+Battery), III(Mains+Backup)							
Cooling		Smart Fan							
Display		LED & OLED							
Communication		CAN, RS485							

* PV Max. input voltage is 950V. The inverter will stop operating when the voltage is between 950V and 1000V. The inverter will be damaged if the voltage exceeds 1000V;
** Max apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery;

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