

AC Coupled Inverter 5-10kW

M2HT-5/6/8/9.9/10K-30-AC

30A	110%	IP66
Max. Charge/Discharge	Unbalanced Output	Protection Degree

Residential | Three Phase | HV Battery



System Upgrade & Flexibility

- Upgrade existing on-grid PV systems to energy storage
- Broad compatibility with on-grid inverters
- Store surplus PV energy to increase self-consumption
- Support peak-shaving and TOU/dynamic pricing modes

Reliable Backup Power

- <10ms on/off-grid switching
- 160% max backup @10s handles overloads
- 110% unbalanced output for diverse loads
- Up to 200% grid input for fast charging



Smart Energy Control

- RMK smart meter enables direct cloud monitoring
- Supports third-party EMS and mainstream BMS
- VPP-ready for future energy participation
- Dry contact control for heat pumps and EV chargers

Safety & Efficiency

- Supports 30A charge and discharge current
- 130–750V wide battery voltage range
- Fanless design with <25dB silent operation
- IP66 protection with comprehensive safety features

Integ M Series

The Power Master

EN-M2HT-5-10-AC-NO2.01-2026
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Model		M2HT-5K-30-AC	M2HT-6K-30-AC	M2HT-8K-30-AC	M2HT-9.9K-30-AC	M2HT-10K-30-AC
Battery Side						
Battery Type		Lithium Battery (with BMS)				
Battery Voltage Range	[V]	130-750				
No. of Battery Input		1				
Max. Charging/Discharging Current	[A]	30/30				
Max. Charging/Discharging Power	[kW]	5/5	6/6	8/8	9.9/9.9	10/10
Grid Side (On-Grid)						
Rated Output Power	[kW]	5.0	6.0	8.0	9.9	10.0
Max. Output Apparent Power	[kVA]	5.0	6.0	8.0	9.9	10.0
Rated AC Voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC Frequency	[Hz]	50/60				
Rated Output Current	[A]	7.6/7.2/6.9	9.1/8.7/8.3	12.1/11.6/11.1	15.2/14.5/13.9	15.2/14.5/13.9
Max. Output Current	[A]	8.8	10.5	14.0	17.6	17.6
Power Factor		0.8 leading …0.8 lagging				
THDi (@Rated Power)		<3%				
Max. Input Apparent Power *	[kVA]	10.0	12.0	12.0	15.0	15.0
Rated AC Voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC Frequency	[Hz]	50/60				
Max. AC Input Current	[A]	15.2	18.2	18.2	22.7	22.7
Back-up Side (Off-Grid)						
Rated Output Power	[kW]	5.0	6.0	8.0	9.9	10.0
Peak Output Apparent Power	[kVA]	9.6 @10s	9.6 @10s	16 @10s	16 @10s	16 @10s
Rated AC Voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated Output Frequency	[Hz]	50/60				
Rated Output Current	[A]	7.6/7.2/6.9	9.1/8.7/8.3	12.1/11.6/11.1	15.2/14.5/13.9	15.2/14.5/13.9
On/Off-grid Switching Time		< 10ms				
THDv (@Linear Load)		<3%				
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]	505x460x207				
Weight	[KG]	24				
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(Battery), III(Mains+Backup)				
Cooling		Natural Convection				
Noise Level	[dB]	< 25				
Display		LED & OLED				
Communication		CAN, RS485				

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

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