



Hybrid Inverter 3-6kW

M2HS-3/3.6/4.2/5/6K-30

20A

Max. PV Input Current

78V

Start-up Voltage

30A

Max. Charge/Discharge

Residential | Single-Phase | HV Battery | 1-2 MPPTs



Maximized Energy Harvesting

- Max. 30A charging/discharging for efficient energy transfer
- 80-450V super wide battery voltage range
- Max. 20A PV input current per string, 1-2 MPP trackers



Engineered for Versatility

- Up to 200% max backup @10s handles overloads
- IP65 protects both indoors and outdoors
- Smooth transition to backup power ensures continuity during power outages



Intelligent Energy Dynamics

- 6 work modes for diverse use
- Supports both ToU and dynamic pricing strategies for optimized energy use and cost savings
- Centralized smart management for efficiency



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

Hybrid Inverter 3-6kW

Models		M2HS-3K-30	M2HS-3.6K-30	M2HS-4.2K-30	M2HS-5K-30	M2HS-6K-30
PV Side						
Max. PV Array Power	[kWp]	6	7.2	8.4	10	12
Max. PV Input Voltage *	[V]	580				
Rated PV Input Voltage	[V]	360				
Start-up Voltage	[V]	78				
MPPT Operating Voltage Range *	[V]	70-550				
No. of MPP Trackers		1	2	2	2	2
No. of Strings per MPPT		1	1/1	1/1	1/1	1/1
Max. Input Current per MPPT	[A]	20	20/20	20/20	20/20	20/20
Max. Short-circuit Current per MPPT	[A]	25	25/25	25/25	25/25	25/25
Battery Side						
Battery Type		Lithium Battery (with BMS)				
Battery Voltage Range	[V]	80-450				
No. of Battery Input		1				
Max. Charge/Discharge Current	[A]	30/30				
Max. Charge/Discharge Power	[kW]	3/3	3.6/3.6	4.2/4.2	5/5	6/6
Grid Side (On-Grid)						
Rated Output Power	[kW]	3.0	3.6	4.2	5.0	6.0
Max. Output Apparent Power	[kVA]	3.0	3.6	4.2	5.0	6.0
Rated AC Voltage		L/N/PE; 220/230/240V				
Rated AC Frequency	[Hz]	50/60				
Rated Output Current	[A]	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	22.7/21.7/20.8	27.3/26.1/25
Max. Output Current	[A]	13.6	16.4	19.1	22.7	27.3
Power Factor		0.8 leading ...0.8 lagging				
THDi (@Rated Power)		<3%				
Max. Input Apparent Power **	[kVA]	6.0	7.2	8.4	10.0	10.0
Rated AC Voltage	[V]	L/N/PE; 220/230/240V				
Rated AC Frequency	[Hz]	50/60				
Max. AC Input Current	[A]	27.3	32.7	38.2	45.5	45.5
Back-up Side (Off-Grid)						
Rated Output Power	[kW]	3.0	3.6	4.2	5.0	6.0
Peak Output Apparent Power	[kVA]	5.8 @10s	5.8 @10s	8.4 @10s	8.4 @10s	8.4 @10s
Rated Output Voltage		L/N/PE; 220/230/240V				
Rated Output Frequency	[Hz]	50/60				
Rated Output Current	[A]	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	22.7/21.7/20.8	27.3/26.1/25
On/Off-grid Switching Time	[ms]	< 10				
THDv (@Linear Load)		<3%				
Efficiency						
MPPT Efficiency		99.90%				
Max. Efficiency		97.20%				
European Efficiency		96.80%				
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]	445x400x197				
Weight	[KG]	18	20	20	20	20
Ingress Protection		IP65				
Standby Self-consumption	[W]	< 15				
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+Backup)				
Cooling		Natural Convection				
Noise Level	[dB]	< 25				
Display		LED & OLED				
Communication		CAN , RS485				

* The maximum PV input voltage is 550V. The inverter will stop operating when the voltage is between 550V and 580V. The inverter will be damaged if the voltage exceeds 580V;

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