

ΩHM

HYBRID INVERTER

Join the resistance

HYBRID INVERTER

5KW 48V | 8KW 48V



Inverter Features

AC Coupled

Update existed solar on-grid system to hybrid

Smart Load

Use Gen input as crucial load output

BMS

Compatible with PYLONTECH, DYNESS, FREEDOM WON, SOLAR MD, BYD

Multiple Output

120V/240V Split phase, 220V Single phase

Protections

PV rapid shutdown control, PV Arc Fault detection, PV input lightning protection

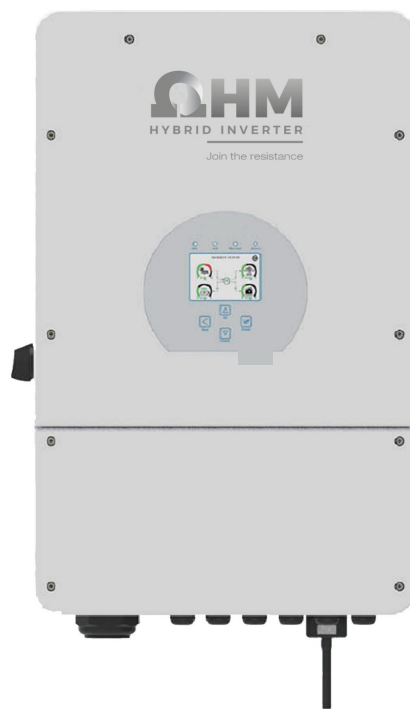
Multiple Working Modes

Grid Tied, Hybrid or OFF Grid. Simultaneously manages power to/from Solar, Battery, Grid, Load and Generator

Additional Feature

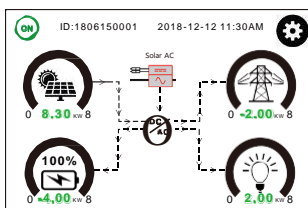
UPS time less than 5ms. Six stages time of use setting. Charge and discharge up to 190A 8KW (125A 5KW),

- Load or home power first with zero export to grid.



Colour Touchscreen Display

Touchscreen interface as easy to understand as your phone. Simultaneously manages power to/from Solar Panels, Batteries, Grid, Load, and Generator.



Contact Us

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TECHNICAL DATA

5KW OHM - 48V

8KW OHM – 48V

Battery	Battery Type	Lead-acid or Li-Ion	
	Battery Voltage Range (V)	40V-60V	
	Max Charging Current (A)	120A	190A
	Max Discharging Current (A)	120A	190A
	Charging Stage	3 Stages + Equalization	
	External Temperature Sensor	Included	
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV Input	Max.DC Input Power (W)	6500W	10400W
	Max.DC Input Voltage (V)	500V	
	MPPT Range (V)	125V-425V	
	Start-up Voltage (V)	150V	
	Max.Input Current (A)	11A+11A	18A+18A
	No.of MPPT Trackers	2	2
	No.of Strings Per MPPT Tracker	1	2
AC Output	Rated AC Output and UPS Power (W)	5000W	8000W
	Peak Power(off grid)	2 times of rated power, 10 S	
	Max.AC Current(A)	20.8A	33A
	Output Frequency and Voltage	50/60Hz; 120Vac&240Vac(split phase), 230Vac(single phase)	
	Grid Type	Split phase/Single Phase	
	Current Harmonic Distortion	THD<3%(Linear load<1.5%)	
Efficiency	Max.Efficiency	97.60%	
	Euro Efficiency	97.00%	
	MPPT Efficiency	99.90%	
Protection	PV Input Lightning Protection	Integrated	
	Anti-islanding Protection	Integrated	
	PV String Input Reverse Polarity Protection	Integrated	
	Insulation Resistor Detection	Integrated	
	Residual Current Monitoring Unit	Integrated	
	Output Over Current Protection	Integrated	
	Output Shorted Protection	Integrated	
	Output Over Voltage Protection	Integrated	
Certifications	Grid Regulation	UL1741,IEEE1547,VDE-ARN 4105, VDE0126, NRS 097	
	Safety Regulation	IEC62109-1&2, IEC62040-1	
	EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	
General Data	Operating Temperature Range (°C)	-25~60°C, >45°C Derating	
	Cooling	Fan	
	Noise (dB)	<30	
	Communication with BMS	RS485; CAN	
	Weight (kg)	25KG	38KG
	Size (Length*Width*Height mm)	680*420*233mm	
	Protection Degree	IP65	
	Installation Orientation	Wall-mounted	
	Warranty	5 years	