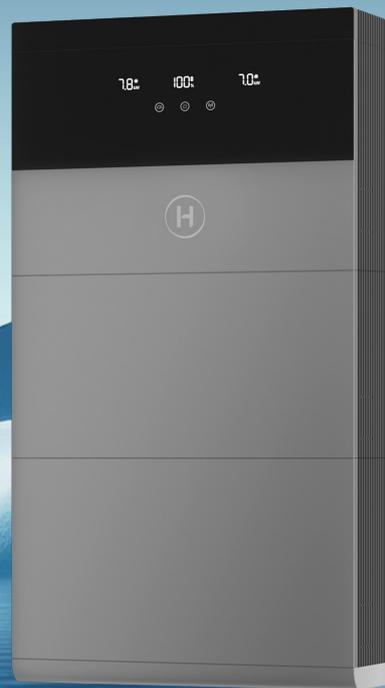


HIONE - THREE-PHASE INVERTER

HiOne-(8-20)T-G3



Inverter

Battery

Features

- 01 Supports three-phase unbalanced output, ensuring stable operation under complex load conditions
- 02 Up to 200% DC/AC oversizing to significantly boost power generation efficiency
- 03 Four independent 20 A MPPTs, perfectly compatible with high-power modules and multi-orientation rooftops
- 04 Rugged IP66 enclosure design ensures performance in harsh environments
- 05 Enables up to 150% off-grid peak output, allowing effortless startup of inductive loads
- 06 Built-in intelligent EMS automatically optimizes energy storage and consumption strategies

Technical Specifications

Model	HiOne-8T-G3	HiOne-10T-G3	HiOne-12T-G3	HiOne-16T-G3	HiOne-20T-G3
Battery					
Battery type			Li-ion		
Battery voltage range (V)			720-950		
Compatible battery model			HiOne-8B-G3		
Number of modules			1-8 ⁽¹⁾		
PV Input					
Recommended max. PV power (W)	16000	20000	24000	32000	40000
Max. input voltage (V)			1000		
Rated voltage (V)			720		
Start-up voltage (V)			170		
MPPT voltage range (V)			150-950		
Max. input current (A)	20/20/20		20/20/20/20		
Max. short circuit current (A)	30/30/30		30/30/30/30		
MPPT number/Max. input strings number	3/3		4/4		
AC Output					
Rated output power (W)	8000	10000	12000	16000	20000
Max. on-grid output apparent power (VA)	8800	11000 ⁽²⁾	13200	17600	22000
Max. output current (A)	13.3	16.7	20.0	26.7	33.3
Max. off-grid output apparent power (VA) ⁽³⁾	12000 (10s)	15000 (10s)	18000 (10s)	24000 (10s)	30000 (10s)
Grid form			3L/N/PE		
Nominal AC output voltage (V)			380/400		
Nominal grid frequency (Hz)			50/60		
Power factor			>0.99 (0.8 leading-0.8 lagging)		
THDi (@rated output)			<3%		
Efficiency					
Max. efficiency			98.5%		
EU efficiency			98.0%		
Protection					
Anti-islanding protection			Integrated		
PV string input reverse polarity protection			Integrated		
Insulation resistor detection			Integrated		
Residual current monitoring unit			Integrated		
AC overcurrent protection			Integrated		
AC short circuit protection			Integrated		
AC overvoltage and undervoltage protection			Integrated		
Surge protection			DC Type II / AC Type II		
General					
Dimensions (W × H × D [mm])			620 × 360 × 255		
Weight (kg)			31		
Mounting			Wall-mounted / Floor-standing		
Operating temperature (°C)			-30 to +65 (>45, derating)		
Relative humidity			0-95%, no condensation		
Cooling	Natural convection		Intelligent air cooling		
Topology			Non-isolation		
Altitude (m)			≤4000		
Protection degree			IP66		
Noise (dB)	<35		<55		
User interface			LED & App		
Communication			RS485, Bluetooth, Wi-Fi / Ethernet (optional)		
Warranty			10 Years (standard), 12.5 Years (optional)		

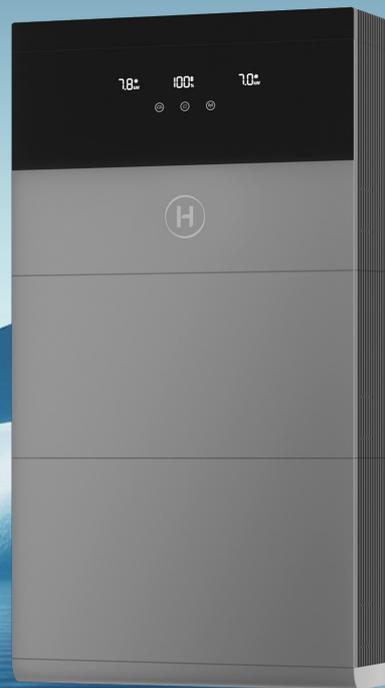
(1) Up to four modules can be stacked in one battery tower.

(2) For Belgium, the maximum output apparent power is equal to the nominal output apparent power.

(3) Applicable only when the inverter is connected to Hoymiles gateway.

HIONE - BATTERY

HiOne-8B-G3



Inverter

Battery

Features

- 01 Equipped with 314 Ah large-capacity cells for extended cycle life and enduring performance
- 02 Multi-layer protection mechanisms ensure comprehensive electrical safety
- 03 Built-in optimizers support mixed use of new and old battery packs, maximizing system scalability
- 04 Adapts to low temperature with self-heating technology, ensuring performance even in extreme cold

Technical Specifications

Model	HiOne-8B-G3
Battery Data	
Battery type	LiFePO ₄
Cell capacity (Ah)	314
Cycle life	8000 ⁽¹⁾
Total energy (kWh)	8
Usable energy (kWh)	7.8 ⁽²⁾
Depth of discharge	100% ⁽³⁾
Max. charging/discharging power (kW)	4
Peak discharge power (kW)	6 (10 s)
Max. stackable quantity	4
Max. parallel quantity	2
General	
Dimensions (W × H × D [mm])	620 × 360 × 255 (single pack)
Weight (kg)	67
Mounting	Wall-mounting / Floor-standing
Installation environment	Indoor / Outdoor
Storage temperature range (°C)	-25 to +60
Charging/discharging temperature range (°C)	-20 to +55
Protection degree	IP66
Cooling	Natural convection
Altitude (m)	≤4000
Relative humidity range	5% - 95%
Compatible inverters	HiOne-(8-20)T-G3, HiOne-(3.6-12)S-G3,
Standard compliance	IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62477
Warranty	10 years

(1) This value is provided by the cell manufacturer and is based on the following conditions: SOH=70%, 0.5 C charge/discharge rate at 25±2°C.

(2) This value is measured at the beginning of life under the following conditions: 100% depth of discharge, 0.2 C charge/discharge rate at 25±2°C.

(3) This value refers to the usable energy capacity of the battery. To keep the battery in good condition, recharge it within 7 days after it has been fully discharged.