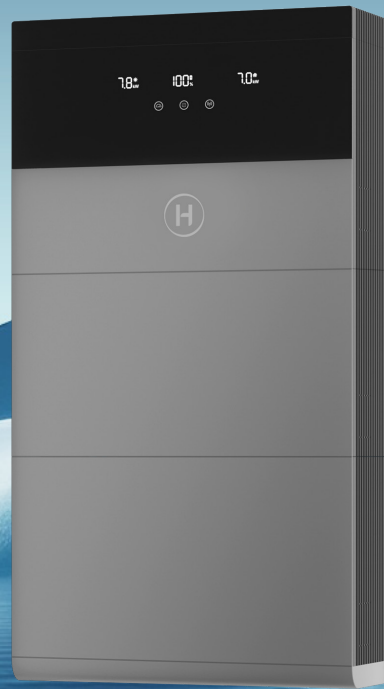


# HIONE - THREE-PHASE INVERTER

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
<b>Battery</b>					
Battery type	Li-ion				
Battery voltage range (V)	720-950				
Compatible battery model	HiOne-8B-G3				
Number of modules	1-8 <sup>(1)</sup>				
<b>PV Input</b>					
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		
<b>AC Output</b>					
Rated output power (W)	8000	10000	12000	16000	20000
Max. on-grid output apparent power (VA)	8800	11000 <sup>(2)</sup>	13200	17600	22000
Max. output current (A)	13.3	16.7	20.0	26.7	33.3
Max. off-grid output apparent power (VA) <sup>(3)</sup>	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%				
<b>Efficiency</b>					
Max. efficiency	98.5%				
EU efficiency	98.0%				
<b>Protection</b>					
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				
<b>General</b>					
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 / 4G (optional)				
Warranty	10 Years				
<b>Standard Compliance</b>					
Grid connection standard	IEC 61727, IEC 62116, EN 50549-1&10, NF EN 50549-1&-10, VDE-AR-N 4105, DIN VDE V 0124-100, PN-EN 50549-1, NC RfG, CEI0-21, AS/NZS 4777.2, PEA/MEA, TOR Erzeuger Type A				
Safety / EMC standard	IEC/EN 61000-6-1, IEC/EN 61000-6-3, EN 62920, IEC/EN 62109-1&2				

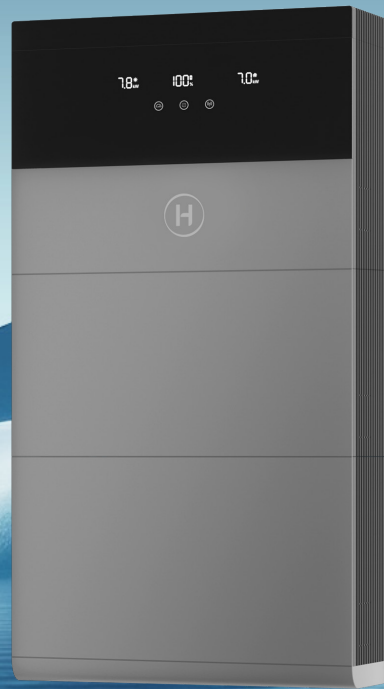
(1) Up to four modules can be stacked in one battery tower.

(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

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- 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
<b>Battery Data</b>	
Battery type	LiFePO <sub>4</sub>
Cell capacity (Ah)	314
Cycle life	8000 <sup>(1)</sup>
Total energy (kWh)	8
Usable energy (kWh)	7.8 <sup>(2)</sup>
Depth of discharge	100% <sup>(3)</sup>
Max. charging/discharging power (kW)	4
Peak discharge power (kW)	6 (10 s)
Max. stackable quantity	4
Max. parallel quantity	2
<b>General</b>	
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, IEC/EN 61000-6-1&3, 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.

