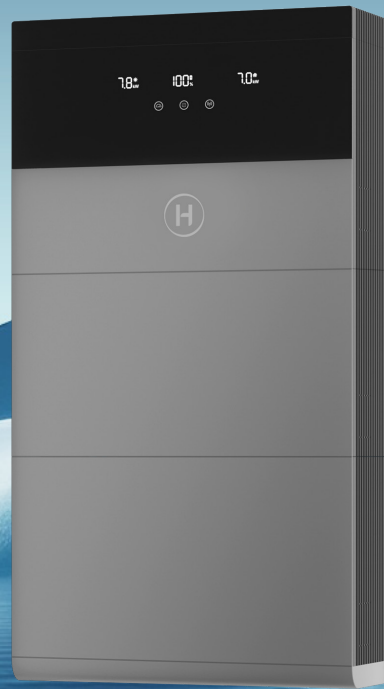


# HIONE - THREE-PHASE INVERTER

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 (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.