

# ALL-IN-ONE BESS | HIONE

8-20kW | Three-phase



Inverter

Battery

## Features

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

## 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	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>(2)</sup>	12000 (10s)	15000 (10s)	18000 (10s)	24000 (10s)	30000 (10s)
Grid form	3L/N/PE				
Rated AC output voltage (V)	380/400				
Rated 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)				

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

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