

HIONE - THREE-PHASE INVERTER

HiOne-(8-20)T-G3



Features

01	Supports three-phase unbalanced output, ensuring stable operation under complex load conditions	04	Rugged IP66 enclosure design ensures performance in harsh environments
02	Up to 200% DC/AC oversizing to significantly boost power generation efficiency	05	Enables up to 150% off-grid peak output, allowing effortless startup of inductive loads
03	Four independent 20 A MPPTs, perfectly compatible with high-power modules and multi-orientation rooftops	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	20/20/20/20	20/20/20/20	20/20/20/20
Max. short circuit current (A)	30/30/30	30/30/30	30/30/30/30	30/30/30/30	30/30/30/30
MPPT number/Max. input strings number	3/3	3/3	4/4	4/4	4/4
AC Output					
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) ⁽²⁾	12000 (10 s)	15000 (10 s)	18000 (10 s)	24000 (10 s)	30000 (10 s)
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%	
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 x H x D [mm])				620 x 360 x 255	
Weight (kg)				31	
Mounting				Wall-mounting / Floor-standing	
Operating temperature (°C)				-30 to +65 (>45, derating)	
Relative humidity				0-95%, no condensation	
Cooling		Natural convection	Natural convection	Intelligent air cooling	Intelligent air cooling
Topology				Non-isolation	
Altitude (m)				≤4000	
Protection degree				IP66	
Noise (dB)	<35	<35	<55	<55	<55
User interface				LED & App	
Communication				RS485, Bluetooth, Wi-Fi / Ethernet (optional)	
Warranty				10 years	

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

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

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HIONE - HIGH VOLTAGE BATTERY

HiOne-8B-G3



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
Total energy (kWh)	8
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
Charging/discharging temperature (°C)	-20 to +55
Protection degree	IP66
Cooling	Natural convection
Altitude (m)	≤4000
Warranty	10 years

