Hoymiles

Open Energy for All

VIỆT NAM SOLAR
vietnamsolar.vn

HIONE - SINGLE-PHASE INVERTER

HiOne-(3.6-12)S-G3



Features

01 Up to 200% DC/AC oversizing to significantly boost power generation efficiency

02 Four independent 18 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 Integrated AFCI (Arc Fault Circuit Interrupter) actively detects arcs to prevent fire hazards

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Technical Specifications

Model	HiOne-3.6S-G3	HiOne-4.6S-G3	HiOne-5S-G3	HiOne-6S-G3	HiOne-8S-G3	HiOne-10S-G3	HiOne-12S-G3
Battery							
Battery type	Li-ion						
Battery voltage range (V)	390-550						
Compatible battery model	HiOne-8B-G3						
Number of modules	1-8(1)						
PV Input							
Recommended max. PV power (W)	7200	9200	10000	12000	16000	20000	24000
Max. input voltage (V)	600						
Rated voltage (V)	390						
Start-up voltage (V)	70						
MPPT voltage range (V)	50-550						
Max. input current (A)	18/18/18				18/18/18/18		
Max. short circuit current (A)	27/27/27				27/27/27/27		
MPPT number/Max. input strings number	3/3				4/4		
AC Output							
Rated output power (W)	3680(2)	4600(3)	5000	6000	8000	10000	12000
Max. on-grid output apparent power (VA)	3680(2)	4600(3)	5000	6000	8000	10000	12000
Max. output current (A)	16(2)	20(3)	22.7	27.3	36.4	45.5	54.5
Max. off-grid output apparent power (VA)(4)	5520 (10s)	6900 (10s)	7500 (10s)	9000 (10s)	12000 (10s)	15000 (10s)	18000 (10s)
Grid form	L/N/PE						
Nominal AC output voltage (V)	220/230/240						
Nominal grid frequency (Hz)	50/60						
Power factor	>0.99 (0.8 leading-0.8 lagging)						
THDi (@rated output)	<3%						
Efficiency							
Max. efficiency	98.0%						
EU efficiency	97.5%						
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)	24.5				28.5		
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						
User interface	LED & App						
Communication	RS485, Bluetooth, Wi-Fi / Ethernet / 4G (optional)						
Warranty	10 Years						
Standard Compliance							
Grid connection standard	EN 50549-1/-10, NF EN 50549-1/-10, CEI0-21, AS/NZS 4777.2, PEA/MEA, TOR Erzeuger Type A, NTS 631, UNE 217001, UNE 217002						
Safety / EMC standard	IEC/EN 61000-6-1/-2/-3/-4, EN 62920, IEC/EN 62109-1&2						

(1) Up to four modules can be stacked in one battery tower.
(2) This value compliance with G98.
(3) This value compliance with VDE 4105.
(4) Applicable only when the inverter is connected to Hoymiles gateway.

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HIONE - 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

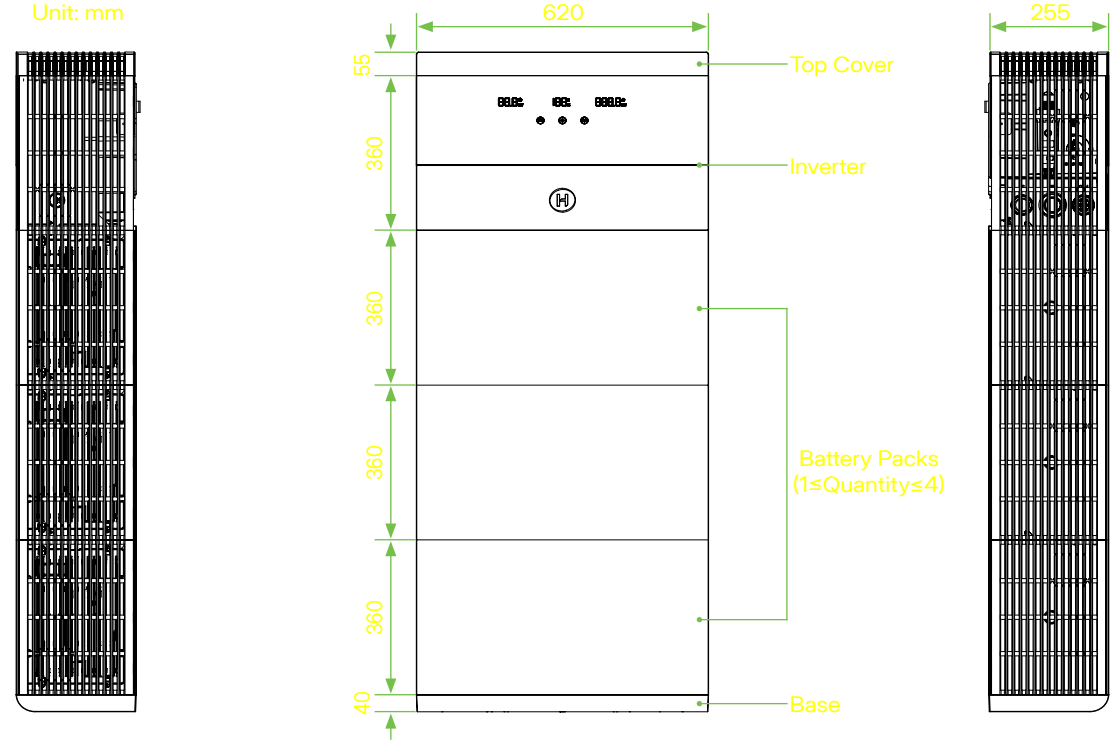
04 Adapts to low temperature with self-heating technology, ensuring performance even in extreme cold

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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, 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.



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