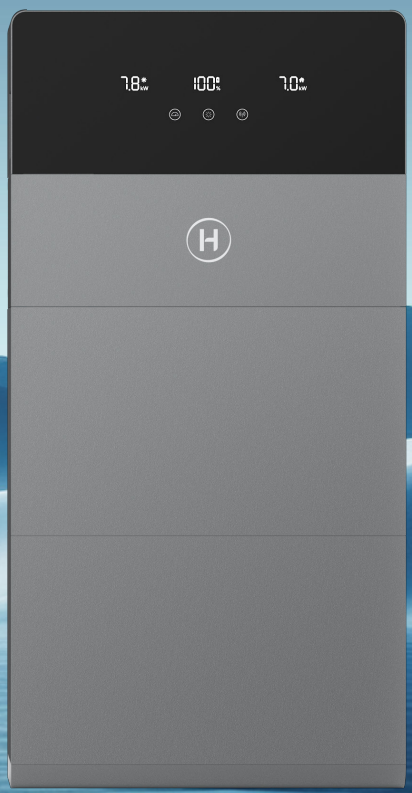
HIONE - PCS

HiOne-(6-11.5)S-USG3



PCS

Battery

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 Type 4X enclosure design ensures performance in harsh environments

04 Capable of supporting heavy loads with a locked-rotor curent (LRA) rating of up to 160 A

05 Built-in intelligent EMS automatically optimizes energy storage and consumption strategies

06 Supports VPP or intelligent automatic electricity transaction

Technical Specifications

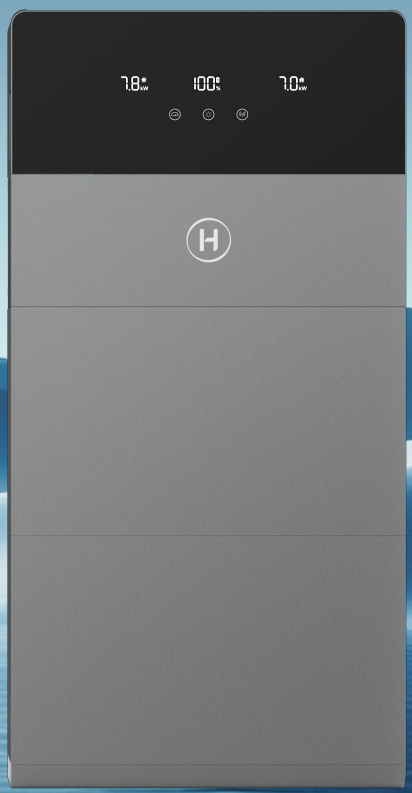
Model	HiOne-6S-USG3	HiOne-7.6S-USG3	HiOne-9.6S-USG3	HiOne-11.5S-USG3
Battery				
Battery type	Li-ion			
Battery voltage range (V)	390 to 550			
Compatible battery model	HiOne-8B-USG3			
Number of modules	1-8(1)			
PV Input				
Recommended max. PV power (W)	12000	15200	19200	23000
Max. input voltage (V)	600			
Rated voltage (V)	390			
Start-up voltage (V)	70			
MPPT voltage range (V)	50 to 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 Inpuy and Output (On-grid)				
Rated input/output power (W)	6000 (@240 V AC) 5200 (@208 V AC)	7680 (@240 V AC) 6656 (@208 V AC)	9600 (@240 V AC) 8320 (@208 V AC)	11520 (@240 V AC) 9984 (@208 V AC)
Max. input/output current (A)	25	32	40	48
Rated AC input/output voltage (V)	120/240, 120/208			
Rated grid frequency (Hz)	60			
Grid form	2L/N/PE			
Power factor	>0.99 (0.8 leading ... 0.8 lagging)			
THDi (@rated output)	<3%			
AC Output (Off-grid)(2)				
Rated output power (W)	11520 (@240 V AC) 9984 (@208 V AC)			
Max. output current (A)	48			
LRA (A)	160			
Power factor	>0.99 (0.8 leading ... 0.8 lagging)			
THDv (@rated output)	<3%			
Back-up switch time (ms)	0			
Efficiency				
Max. efficiency	98.0%			
CEC 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			
DC switch	Integrated			
AFCI	Integrated			
Surge protection	DC Type II / AC Type II			
General				
Dimensions (W × H × D)	24.4 × 18.1 × 10.0 inches (620 × 460 × 255 mm)			
Weight	71.7 lb (32.5 kg)			
Mounting	Wall-mounted/Floor-standing			
Storage temperature	-40 °F to +158 °F (-40 °C to +70 °C)			
Operating temperature	-22 °F to +149 °F, >113 °F derating (-30 °C to +65 °C, >45 °C derating)			
Relative humidity	0 to 95%			
Cooling	Intelligent air cooling			
Topology	Non-isolation			
Maximum elevation	13123 ft (4000 m)			
Enclosure rating	Type 4X			
User interface	LED & APP			
Communication	RS485, Bluetooth, Wi-Fi/Ethernet/4G (optional)			
Grid connection standard	IEEE1547, IEEE1547.1, CSA no.9, UL1741SB, HECO Rule 14 SRD / CA Rule 21			
Certifications	UL 1699B, UL 1998, UL 991, UL 1741, UL 1741 Multimode, UL 1741 CRD, UL 3141, CSA C22.2 No.107.1			
Seismic	AC 156, IEEE 693-2005 (high)			
Environmental	California Proposition 65			
Emissions	FCC Part 15 Class B, ICES 003			

(1) Up to four modules can be stacked in one battery tower. When the number of modules is 3 or more, the maximum PV-to-battery charge power is 12 kW.
(2) Applicable only when used with Hoymiles HMID.

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HIONE - BATTERY

HiOne-8B-USG3



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-USG3
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)	24.4 × 14.2 × 10 inches (620 × 360 × 255 mm)
Weight	147.7 lb (67 kg)
Mounting	Wall-mounting/Floor-standing
Installation environment	Indoor/Outdoor
Storage temperature	-4°F to +140°F (-20°C to +60°C)
Charging/discharging temperature	-4 °F to +131 °F, >113 °F derating (-20 °C to +55 °C, >45 °C derating)
Relative humidity range	0 to 95%, non-condensing
Protection level	Type 4X
Cooling	Natural Cooling
Maximum elevation	13123 ft (4000 m)
Standard compliance	UN 38.3, UL 1973, UL 9540A, UL 9540
Environmental	California Proposition 65
Emissions	FCC Part 15 Class B

(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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