



ATLAS H120A

C&I Energy Storage System



High Energy Density Integration

120.5kWh energy capacity per cabinet with high-performance 314Ah LFP battery cells.



Wide-range PV-Storage Integration

150–850V MPPT voltage range, supporting 4 MPPTs and 8 PV strings, with a maximum input current of 40A per MPPT.



All-weather Environmental Adaptability

Designed for operation from -20°C to 55°C , featuring IP54 protection and C3 anti-corrosion rating (C5 optional).



Seamless On/Off-grid Operation

50kW rated output power with 160% overload capability (80kW for 2s) in off-grid mode. Ultra-fast <10ms transfer time ensures uninterrupted power supply for critical loads.

ATLAS H120A Product Specifications

Model	ATLAS H120A
Battery Parameters	
Cell Type	LiFePO ₄
Cell Specifications	314 Ah
Pack Capacity	20 kWh
Rated Capacity	120.5 kWh
Rated Voltage	384 V
Input DC(PV side)	
Rated Input Voltage	600 V
MPPT Voltage Range	150~850 V
MPPT number /Max. input strings number	4/8
Max. short circuit current	4*40 A
Max. input current	4*60 A
Recommended max. PV array size	100 kW
Max. usable PV input power	96 kW
AC Side Grid-Connected Parameters	
AC Rated Power	50 kW
Max Output Power	50 kVA
Current Distortion Rate	<3%
Rated Voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Rated Frequency	50 Hz
AC Side Off-Grid Parameters	
AC Rated Power	50 kW
Wiring Method	3/N/PE
Rated Output Voltage	220 V / 380 V, 230 V / 400 V
Rated Output Frequency	50 Hz
Voltage Distortion Rate	<2%
System Parameters	
Communication Interface	RJ45
Communication Protocol	CAN
Display	Screen
IP Rating	IP54
Cooling Method	Intelligent fan-cooling
Mounting Method	Floor installation
Corrosion Protection Rating	C3
Ambient Temperature	-20°C to 55°C (> 45°C derating)
Ambient Humidity	5% ~ 95% (No condensaton)
Noise	70 dB
Altitude	2000 m
Dimensions (W×D×H)	1109*1396*2002 mm
Weight	1.3 T