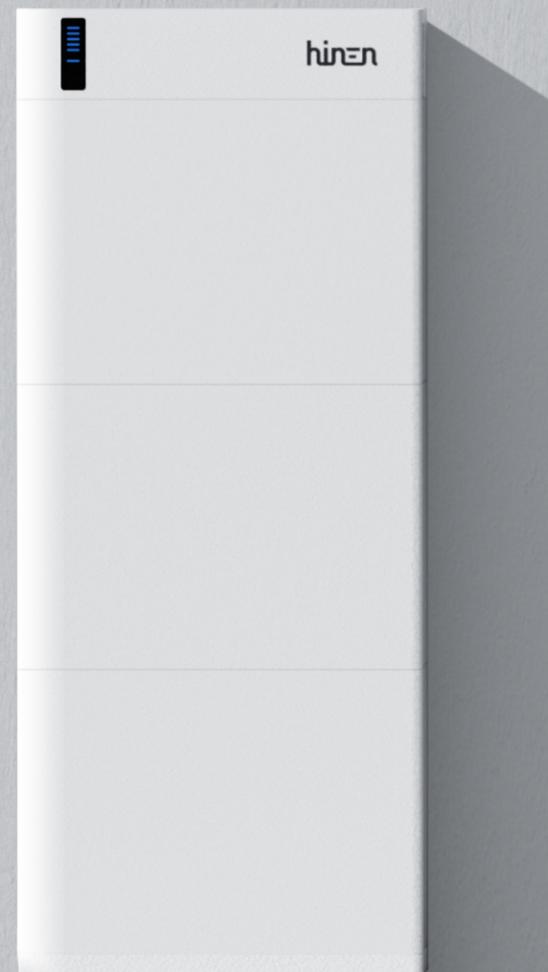


BH7700A

7.7kWh High-voltage Battery Module

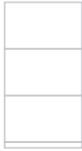


- Stackable integrated design, plug & play, no additional cable
- Up to 45A charge & discharge(continuous), faster than you've ever expected
- Fearlessly defying extreme temperatures, operating temperature -20°C~ 60°C
- Automotive-Grade AFE chip, experience ultra accuracy for optimal system performance
- Top-tier Safety, 5-layer Battery Protection :
 - ① Full coverage temperature detection
 - ② BMS intelligent control, over-temp., over-current, over-voltage protection
 - ③ Built-in DC breaker
 - ④ Internal aerosol fire extinguisher
 - ⑤ Decompression valve

Technical Specification

Model	BH7700A	BH7700B	BH7700C
System Specification			
Rated capacity(kWh)	7.776	15.552	23.328
Available energy(kWh)	6.998	13.996	20.995
Battery module	172.8V,45Ah,7.776kWh	345.6V,45Ah,15.552kWh	518.4V,45Ah,23.328kWh
Capacity expansion	1~3 modules connected per cluster		
Battery type	LFP(LiFePO4)		
Cycle life	8000 cycles		
Battery configuration	54SIP	108SIP	162SIP
Rated voltage(VDC)	172.8	345.6	518.4
Operating voltage range (VDC)	135~194.4	270~388.8	405~583.2
System operating voltage range(VDC)	135~583.2		
Max. continuous charge / discharge current(A)	45		
Maximum charge/ discharge power(kW)	7.776	15.552	23.328
Depth of discharge(%)	90		
Protection & Function			
Overvoltage/ undervoltage protection	Yes		
Overcurrent protection	Yes		
Over-temperature/under temperature protection	Yes		
DC circuit breaker	Yes		

Technical Specification

Model	BH7700A	BH7700B	BH7700C
			
General Information			
Battery net weight(kg)	87	174	261
Battery system weight(kg)	103	190	277
Dimensions (excluding foot pads)(mm)	730*710*180	730*1220*180	730*1730*180
Dimensions (including foot pads)(mm)	730*754*180	730*1264*180	730*1774*180
Installation location	Indoor/Outdoor		
Installation type	Floor stand		
Run logging	8MB		
Communication	CAN		
Operating temperature(°C)	Charge:0~55/Discharge:-20~60		
Storage temperature(°C)	-20 ~ 40(≤One month)/0~35(≤One year)		
Humidity(%)	15 to 90 no condensing		
Working height(m)	≤2000		
Enclosure type	IP65		
Protective Class	Class I		
Cooling method	Natural convection		
Certification	CB, CE, UKCA, LOA, SONCAR, RCM, EMC, ROHS, S-Mark, KBIA, UL		
	IEC 62619:2022, IEC 60730-1 Appendix H, IEC/EN 62368-1, EN IEC 61000-6-1/3, IEC 60529, IEC 60068-2-52		
	UN 38.3, MSDS		
Warranty*	10 Years		

Warranty*: Refer to the product warranty terms for details

Rated capacity *: Test conditions, 100% DOD, 0.5C charge and discharge at +25±2°C.
 Available energy*: Test conditions, 90% DOD, 0.5C charge and discharge at +25±2°C.
 Cycle life*: Test conditions, 90% DOD, 0.2C charge and 0.5C discharge at +25±22°C.
 Maximum Charge and Discharge Current*/Power *: Maximum continuous charge and discharge current and power derating will be temperature and SOC dependent.

BH7700A BAT.*1: Charging the battery system with 45 A constant current until 197.1 V, then constant voltage until charging current reduces to 0.05C

BH7700B BAT.*2: Charging the battery system with 45 A constant current until 394.2 V, then constant voltage until charging current reduces to 0.05C

BH7700C BAT.*3: Charging the battery system with 45 A constant current until 591.3 V, then constant voltage until charging current reduces to 0.05C