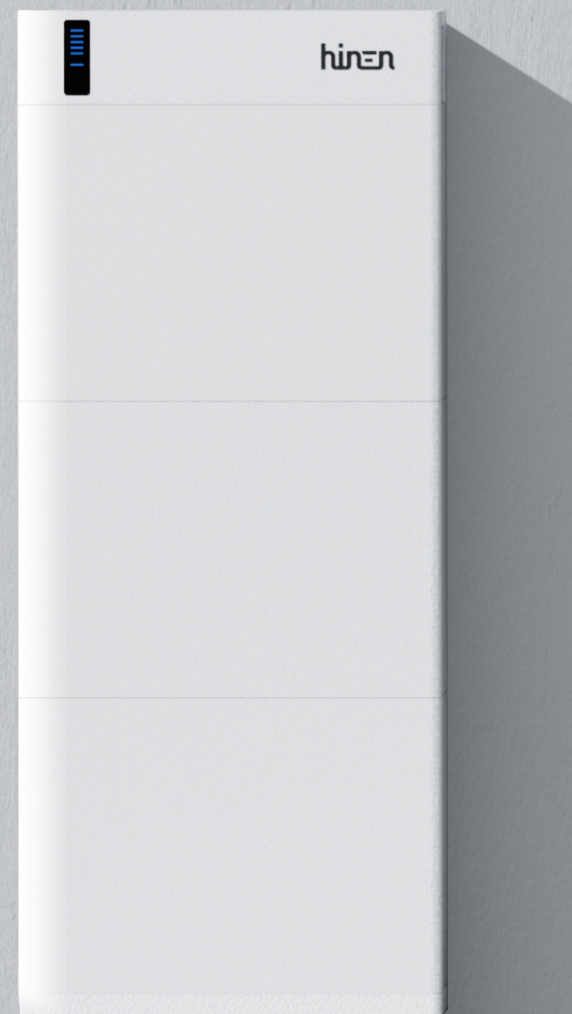





# B7700M-H

## 7.7kWh High-voltage Battery Module


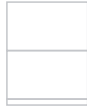

- Stackable integrated design, plug & play, no additional cable
- Up to 45A charge & discharge(continuous), faster than you've ever expected
- Fearlessly defying extreme temperatures, operating temperature -20°C~ 60°C
- Automotive-Grade AFE chip, experience ultra accuracy for optimal system performance
- 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	B7700M-H x1	B7700M-H x2	B7700M-H x3
			
<b>System Specification</b>			
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, with up to 6 clusters connected in parallel		
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		
<b>Protection &amp; Function</b>			
Overvoltage/ undervoltage protection	Yes		
Overcurrent protection	Yes		
Over-temperature/under temperature protection	Yes		
DC circuit breaker	Yes		

## Technical Specification

Model	B7700M-H x1	B7700M-H x2	B7700M-H x3
			
<b>General Information</b>			
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