

Lithium Battery Pack High Voltage Series

Blade batteries and high-voltage batteries both represent significant advancements in battery technology, each offering unique advantages. The blade battery features a revolutionary blade-shaped design that optimizes space utilization and enhances structural strength, while also addressing safety concerns such as thermal runaway through innovative cell structures and chemical materials. It maintains an exceptionally high level of safety even under extreme conditions, setting new standards for safety, energy density, and lifespan in batteries. On the other hand, high-voltage batteries excel in energy density, enabling the storage of more electrical energy in a smaller volume and weight, and provide higher voltage output, reducing energy loss and improving efficiency. They also boast a longer lifespan and can be scaled through modular series connections to meet diverse demands, supported by intelligent battery control units to ensure high safety and efficient operation. While blade batteries focus on safety and structural innovation, high-voltage batteries emphasize energy density and efficiency, both driving the advancement of battery technology.

Features And Advantages



Simple Installation
Design



Real-time Data
Monitoring with
Bluetooth



10 Years Warranty



Superior BMS with
Brand Battery Cell



Large Capacity
range :
15kWh—105kWh



Ultra-thin battery
cell

Lithium Battery

Modular Stackable Series(HV)



Specification

MODEL		UNIV-HV ST15k	UNIV-HV ST23k	UNIV-HV ST31k
		2*Modules	3*Modules	4*Modules
Component		1*Control Box	1*Control Box	1*Control Box
		1*Base	1*Base	1*Base
BATTERY PARAMETERS				
Total Energy (kWh)		15.36	23.04	30.72
Useable Energy (kWh)		14.44	21.66	28.88
Nominal Voltage (Vd.c)		153.6	230.4	307.2
Voltage Range (Vd.c)		134.4 ~ 172.8	201.6 ~ 259.2	268.8 ~ 345.6
Rated Capacity (Ah)		100		
Recommend Current (A)	Charge	50		
	Discharge	50		
Depth of Discharge (DOD)		90%		
Dimension (W *H* D) (mm)		660*550*450	660*695*450	660*840*450
Weight (KG)		154	217	280
BMS Features		Over-voltage & Over-current Protection/Short -circuit Protection Low-voltage Protection/Over Temperature Protection/Cell Balance		
Model		H		
Communication		CAN/RS485		
OPERATING CONDITION				
Operation Temperature	Charge	0℃ ~ 55℃ (32℉ ~ 131℉)		
	Discharge	-20℃ ~ 55℃ (-4℉ ~ 131℉)		
Storage Temperature		-20℃ ~ 55℃ (-4℉ ~ 131℉)		
IP Rating		IP20		
Installation Type		Stackable		
Cooling Type		Natural		
Operating Environment		Indoor (5% ~ 95%(RH) No Condensing)		
Altitude		≤2000 m		
CERTIFICATION AND SAFETY				
Warranty		5+5 Years		
Operation Life		15+ Years (25℃/77 ℉)		
Cycle Life		≥7000@25 ℃		
Certification		CE/Cell UL 1973/IEC62619		
Transportation Certification		UN38.3/MSDS		

The recommended and max. continuous operation current is for a battery cell temperature within 10-40°C to consider, out of such temp. range will cause a derating on operation current.

Lithium Battery

Modular Stackable Series(HV)



Specification

MODEL		UNIV-HV ST38k	UNIV-HV ST46k	UNIV-HV ST54k	UNIV-HV ST62k
Component		5*Modules	6*Modules	7*Modules	8*Modules
		1*Control Box	1*Control Box	1*Control Box	1*Control Box
		1*Base	1*Base	1*Base	1*Base
BATTERY PARAMETERS					
Total Energy (kWh)		38.4	46.08	53.76	61.44
Useable Energy (kWh)		36.10	43.32	50.53	57.75
Nominal Voltage (Vd.c)		384	460.8	537.6	614.4
Voltage Range (Vd.c)		336 ~ 432	403.2 ~ 518.4	470.4 ~ 604.8	537.6 ~ 691.2
Rated Capacity (Ah)		100			
Recommend Current (A)	Charge	50			
	Discharge	50			
Depth of Discharge (DOD)		90%			
Dimension (W *H* D) (mm)		660*985*450	660*1130*450	660*1275*450	660*1420*450
Weight (KG)		343	406	469	532
BMS Features		Over-voltage & Over-current Protection/Short -circuit Protection Low-voltage Protection/Over Temperature Protection/Cell Balance			
Model		H			
Communication		CAN/RS485			
OPERATING CONDITION					
Operation Temperature	Charge	0℃ ~ 55℃ (32°F ~ 131°F)			
	Discharge	-20℃ ~ 55℃ (-4°F ~ 131°F)			
Storage Temperature		-20℃ ~ 55℃ (-4°F ~ 131°F)			
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