

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		1*Module	UNIV-HV ST21k	UNIV-HV ST32k	UNIV-HV ST42k
Component			2*Modules 1*Control Box 1*Base	3*Modules 1*Control Box 1*Base	4*Modules 1*Control Box 1*Base
BATTERY PARAMETERS					
Total Energy (kWh)		10.56	21.12	31.68	42.12
Useable Energy (kWh)		9.93	19.85	29.78	39.59
Nominal Voltage (Vd.c)		70.4	140.8	211.2	280.8
Voltage Range (Vd.c)		61.6 ~ 79.2	123.2 ~ 158.4	184.8 ~ 237.6	246.4 ~ 316.8
Rated Capacity (Ah)		150	150	150	150
Recommend Current (A)	Charge	150	150	150	150
	Discharge	150	150	150	150
Depth of Discharge (DOD)		90%			
Dimension (W *H* D) (mm)		1050*120*470	1050*485*470	1050*605*470	1050*725*470
Weight (KG)		78	181	259	337
BMS Features		Over-voltage & Over-current Protection/Short-circuit Protection Low-voltage Protection/Over Temperature Protection/Cell Balance			
Communication		CAN/RS485			
OPERATING CONDITION					
Operation Temperature	Charge	0°C ~ 55°C (32°F ~ 131°F)			
	Discharge	-20°C ~ 60°C (-4°F ~ 140°F)			
Storage Temperature		-20°C ~50°C (-4°F ~122°F)			
IP Rating		IP20			
Installation Type		Stackable			
Cooling Type		Natural			
Operating Environment		Indoor (5% ~ 95%(RH) No Condensing)			
Altitude		≤4000 m			
CERTIFICATION AND SAFETY					
Warranty		10 Years			
Operation Life		15+ Years (25°C/77 °F)			
Certification		CE/Cell UL 1973			
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 ST53k	UNIV-HV ST63k	UNIV-HV ST74k	UNIV-HV ST85k
Component		5*Modules 1*Control Box 1*Base	6*Modules 1*Control Box 1*Base	7*Modules 1*Control Box 1*Base	8*Modules 1*Control Box 1*Base
BATTERY PARAMETERS					
Total Energy (kWh)		52.65	63.18	73.92	84.48
Useable Energy (kWh)		49.49	59.39	69.48	79.41
Nominal Voltage (Vd.c)		351	421.2	492.8	563.2
Voltage Range (Vd.c)		308 ~ 396	369.6 ~ 475.2	431.2 ~ 554.4	492.8 ~ 633.6
Rated Capacity (Ah)		150	150	150	150
Recommend Current (A)	Charge	150	150	150	150
	Discharge	150	150	150	150
Depth of Discharge (DOD)		90%			
Dimension (W *H* D) (mm)		1050*845*470	1050*965*470	1050*1085*470	1050*1205*470
Weight (KG)		415	493	571	649
BMS Features		Over-voltage & Over-current Protection/Short-circuit Protection Low-voltage Protection/Over Temperature Protection/Cell Balance			
Communication		CAN/RS485			
OPERATING CONDITION					
Operation Temperature	Charge	0°C ~ 55°C (32°F ~ 131°F)			
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