

High Voltage Storage System



Features



MODULAR DESIGN

- The battery capacity could be selected freely based on customer's requirement.



SAFETY

- Providing variety of electrical protection functions which makes it safe to use.

TECHNICAL SHEETS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Model	ESS-10.24K HV	ESS-12.8K HV	ESS-15.36K HV	ESS-17.92K HV	ESS-20.48K HV
Specification					
Cell Type	LFP (LiFePO4)				
Cell Capacity	50 Ah				
Rated Voltage of Module	51.2 V				
Operating Voltage of Module	44.8-57.6 V				
Module Energy	2.56 kWh				
Number of Modules	4	5	6	7	8
Nominal Energy *1of System	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh
Rated Voltage(V) of System	204.8 V	256 V	307.2 V	358.4 V	409.6 V
Operating Voltage(V) of System	179.2 V~230.4 V	224 V~288 V	268.8 V~345.6 V	313.6 V~403.2 V	358.4 V~460.8 V
Nominal Charge/Discharge Current *2	25 A / 25 A				
Max Charge/Discharge Current *2	50 A / 50 A				
Communication with Inverter	CAN, RS485				
Protection					
Over/Under Voltage Protection	Yes				
Over Current Protection	Yes				
Over/Under Temperature Protection	Yes				
Communication Failure	Yes				
General Data					
Weight	≈137 kg	≈165 kg	≈193 kg	≈221 kg	≈249 kg
Dimensions (W*H*D)	618x793x390 mm	618x938x390 mm	618x1083x390 mm	618x1228x390 mm	618x1373x390 mm
Humidity	≤ 95%				
Max. Altitude	2000 m				
IP Rating	IP55				
Charge & Discharge Temperature Range	Charge: 0 °C~50 °C Discharge: -20 °C~50 °C				
Installation Location	Ground-mounted				
Standard and Compliance	Safety	IEC 62619, UL1973			
	EMC	IEC61000-6-1, IEC61000-6-3			
	Trans.	UN38.3			
Application	On Grid/On Grid+Back Up / Off Grid				
Warranty	10 Years				
Expansion Adaptation	Max. 4 sets in parallel				

*1:Test conditions, 100% DOD, 0.2C charge & discharge at +25±3°C for battery system at beginning life.System Usable Energy may vary with different Inverter.

*2:Nominal Dis-/Charge Current and power derating will occur related to Temperature and SOC.

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