SolarEast

HV Stack-mounted Residential ESS

- **Safety**
  LFP Battery, Intelligent BMS and protective hardware providing complete protection
- **Accuracy**
  Dynamic SOC calibration
- **Compatibility**
  Suitable for most mainstream inverters
- **Easy Installation**
  Modular design, stackable up to 56 packs
- **Durability**
  6,000 cycles at 95% DOD
- **Certificates**
  IEC62619, IEC63056, IEC62477-1, IEC60730, UN38.3, MSDS

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Technical specification:

Rechargeable Li-ion Battery System						
Model	PowerCool-LFP-HV2-10	PowerCool-LFP-HV2-15	PowerCool-LFP-HV2-20	PowerCool-LFP-HV2-25	PowerCool-LFP-HV2-30	PowerCool-LFP-HV2-35
Number of Pack	2pcs	3pcs	4pcs	5pcs	6pcs	7pcs
Rated Capacity	100Ah					
Total Energy*	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh
Usable Energy*	9.72kWh	14.59kWh	19.45kWh	24.32kWh	29.18kWh	34.04kWh
Voltage Range	89.6~115.2Vd.c	134.4~172.8Vd.c	179.2~230.4Vd.c	224~288Vd.c	268.8~345.6Vd.c	313.6~403.2Vd.c
Nominal Voltage	102.4V	153.6V	204.8V	256V	307.2V	358.4V
Max. Charging Voltage	115.2V	172.8V	230.4V	288V	345.6V	403.2V
V_{trip} : The trip voltage of Overcharge protection voltage contro	116.8V	175.2V	233.6V	292V	350.4V	408.8V
V_{trip} : The trip voltage of overdischarge protection voltage control	83.2V	124.8V	166.4V	208V	249.6V	291.2V
I_{trip} : The trip current of Overcharge protection current control	60 A					
T_{trip} :The trip temperature of Overheating protection	57 ℃					
Nominal Continuous Charging Current	50 A					
Max. Continuous Charging Current	57 A					
Nominal Continuous Discharge Current	50 A					
Max. Continuous Discharge Current	57 A					
Standard Charging Method by Manufacturer	Charge at constant current 50A until the max cell voltage reaches 3.6V, then still for 30min followed by charging at constant current 5A until the max cell voltage reaches 3.6V.					
Standard Charging Method at Highest Ambient Temperature by Manufacturer	Charge at constant current 25A until voltage reaches 3.6V.					
DOD	95 %					
Communication	CAN/RS485					
Dimension(L*W*H)	(660±2) * (390±2) * (515±3) mm	(660±2) * (390±2) * (665±5) mm	(660±2) * (390±2) * (815±7) mm	(660±2) * (390±2) * (965±9) mm	(660±2) * (390±2) * (1115±9) mm	(660±2) * (390±2) * (1265±9)
Net Weight	(107±2) kg	(152±4) kg	(197±6) kg	(242±8) kg	(287±8) kg	(332±8) kg
Operating Condition	Indoor or outdoor					
Operating Temperature	Charging: 0~55 ℃ Discharge: 0~55 ℃					
Standard Ambient Temperature Range	0~40 ℃					
Storage Temperature Range	> 1 month 0~35℃ ≤1 month -20~45℃					
Humidity	5% ~ 95%(RH)(No Condensation)					

Technical specification:

Rechargeable Li-ion Battery System	
Cooling Type	Natural
IP Rating	IP66
Installation Method	Stacked installation
Warranty	10 years (5 free warranty + 5 paid warranty)
Configuration	IEC62619,IEC63056,IEC61000-6-1,IEC61000-6-3,IEC62477-1,IEC60730,IEC62040,UN38.3,MSDS

Product name		PowerCool-LFP-HV2
Total Energy*		5.12 kWh
Usable Energy*		4.86 kWh
Voltage Range		44.8~57.6 Vd.c
Nominal Voltage		51.2 V
Charging Voltage Declared by Manufacturer		57.6 V
Nominal Continuous Charging Current		50 A
Max. Continuous Charging Current		57 A
Nominal Continuous Discharge Current		50 A
Max. Continuous Discharge Current		57 A
Discharge Cut-off Voltage		44.8 V
Lower Limit Discharging Voltage		41.6 V
Dimension(L*W*H)		(660±2)*(390±2)*(174±2)mm
Net Weight		(45±2)kg
Operating Condition		Indoor or outdoor
Operating Temperature	Charging Discharge	0~55 ℃ 0~55 ℃
Standard Ambient Temperature Range		0~40 ℃
Storage Temperature Range		> 1 month 0~35℃ , ≤1 month -20~45℃
Humidity		5% ~ 95%(RH)(No Condensation)
Standard Charging Method		Charge at constant current 50 A until the max cell voltage reaches 3.6 V. Then still for 30 min followed by charging at constant current 5 A until the max cell voltage reaches 3.6 V.
Standard Charging Method at Highest Ambient Temperature		Charge at constant current 25A until voltage reaches 3.6V.
Standard Discharging Method at Highest Ambient Temperature		Discharge at constant current 25A until voltage reaches 2.8V.
Configuration		(8S)2S
Warranty		10 years (5 free warranty + 5 paid warranty)
Configuration		IEC62619,IEC63056,EN IEC61000-6-1,EN IEC61000-6-3,IEC62477-1,IEC60730,IEC62040,UN38.3,MSDS

Testing conditions based on temperature 25℃ at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from PowerCool-LFP 0.2C CC-CV