HV Stacking All in One ESS

YF-LFP-HV Series

aurora OPTOELECTRONIC



(Battery Pack)



Features

- **BMS** — Advanced Cell Balancing
- ≥8000 Cycles
- Support remote OTA upgrade and remote maintenance.
- Self-developed 2-level/3-level BMS Multiple Protection, Safe And Reliable
- Local and remote management, standardrack&module design, front maintenance
- Full-time balancing technology ensures battery consistency and extends service life

Datasheet

Model	YF-LFP-HV-7	YF-LFP-HV-9	YF-LFP-HV-12	YF-LFP-HV-15
Battery Type	LiFePO4			
Module Energy	11.7kWh			
Single Module Nominal Voltage	51.2V			
Module Capacity	230Ah			
Number of Battery Modules (Optional)	7	9	12	15
System Energy	81.9 kWh	105.98 kWh	140.4 kWh	175.5 kWh
System Nominal Voltage	358.4 V	460.8 V	614.4 V	768 V
System Operating Voltage	336—403.2V	432-518.4V	576-691.2V	720—864V
Scalability	Max.8 PCS in Parallel(1404 kWh)			
Recommend Charge/Discharge current	80A			
Max.continuous charge/Discharge current	100A			
Peak Charge/Discharge Current(@2s)	125A			
Depth of Discharge(DOD)	90%			
Display type	LCD(Touch)			
Protection Level	IP21			
Operating Temperature Range(Charge)	0°C ~ +50°C			
Operating Temperature Range(Discharge)	-5°C ~ +50°C			
Storage Temperature Range(One month)	-10°C ~ +45°C			
Storage Temperature Range(Six months)	-10°C ~ +35°C			
Humidity	20%~95%(No condensation)			
Altitude	≤2000m			
Cycle Life	≥8000 Cycles			
Cooling Method	Natural cooling			
Installation	Rack-Mounting			
Protection	Built-in smart BMS； Breaker			
Communication Port	CAN			
Warranty Period	Ten years(0.5C charge/Discharge @25°C， 80% DOD)			
Dimension(mm)				
Name	11.7kWh Pack	PDU	8-layer bracket	5-layer bracket	Upper cover
Product Dimension(mm)	W528*H235*D617mm±5mm (Compatible with 19-inch racks)		W540*D655* H2100mm±10mm	W540*D655* H1380mm±10mm	W540*D600* H50mm±10mm
Package Dimension(mm)	687*565*320mm ±5mm	680*610*290mm ±5mm	2181*655*130mm ±10mm	1380*655*130mm ±10mm	615*548*60mm ±5mm
Product Weight Approximate	89kg±1kg	21.5kg±1kg	55kg±1kg	40.5kg±1kg	5.0kg±0.5kg
Package Weight Approximate	101kg±2kg	25.5±1kg	56kg±1kg	42kg±1kg	5.5kg±0.5kg

***Test conditions: 0.5C charge/discharge, @25°C, 80% DOD; product specifications are subject to change without prior notice.**

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