



ECO-A *High Voltage* **Lithium Batteries**

Features

Long Cycle Life: 6000Cycles@80% DOD
Faster Charging & Discharging: 1C Charge & Discharge Current, max 100A

Applications

Backup, Peak-shaving, UPS, EV Car Stations, Telecommunication etc.

ECO-AM5.1 5.12kWh battery module

Battery Type	LIFEPO4(LFP)
Nominal Voltage	51.2VDC
Rated Capacity	100A
Rated Energy	5.12Kwh
Recommended Charge Current	50A
Nominal Charge/Discharge Current	100A
Voltage Range	45.6V-57.6V
Recommended Operating temperature	25°C
Operating Temperature Range	0°C-55°C
Installation Type	INDOOR IP20
Dimension(W/D/H)	483*480*133mm
Weight Approximate	48Kg
Primary-level Battery Management Unit	BMU



Operating Temperature Range



Power Cable



Communication Cable



Ground Wire



Stacking Bracket

HVB-1000V/100A High Voltage Battery Cluster Control Box

Maximum Voltage	1000V
Voltage Operating Range	120V-900V
Nominal Charge/Discharge Current	100A
Communication	CAN
Operating Temperature Range	-25°C-55°C
Installation Type	Indoor IP20
Dimension(W/D/H)	483*480*178mm
Weight Approximate	25kg
Secondary-level Battery Cluster Management Unit	BCMU



Battery Module Standard Configuration



CAN Communication Box



LCD Display

power cable



Battery Positive Cable*1 Battery Negative Cable*1 Inverter Positive Cable*1 Inverter Negative Cable*1 Communication Cable Ground Wire Stacking Bracket

PRODUCT DATASHEET

Model		ECO-A							
MAIN PARAMETER									
Cell Chemistry		LiFePO4							
Module Energy (kWh)		5.12							
Module Nominal Voltage (V)		51.2							
Module Capacity (Ah)		100							
Battery Module Number		ECO-A15	ECO-A20	ECO-A25	ECO-A30	ECO-A35	ECO-A40	ECO-A45	ECO-A50
Battery Module Qty In Series (Optional)		3	4	5	6	7	8	9	10
System Nominal Voltage (V)		153.6	204.8	256	307.2	358.4	409.6	460.8	512
System Operating Voltage (V)		136.8-172.8	182.4-230.4	228-288	273.6-345.6	319.2-403.2	364.8-460.8	410.4-518.4	456-576
System Energy (kWh)		15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2
System Usable Energy (kWh)		13.82	18.43	23.04	27.64	32.25	36.86	41.47	46.08
Rated DC Power		15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2
Charge/Discharge Current(A)	Recommend	50							
	Nominal	100							
Operating Temperature Range (°C)		Charge: 0~55/Discharge: -20~55							
Storage Temperature (°C)		0~35							
Communication		CAN							
Humidity		5%~95%RH							
Altitude		≤2000m							
Recommend Depth of Discharge		90%							
Cycle Life		25°C,0.5C, EOL80%≥6000							
Design life		15 years							
Warranty		10 years							
Certification		CE,UL1973,UL2054,IEC62619,UN38.3,MSDS							

1. DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.

Customized Cabinet

Outdoor



Indoor



Bracket

