



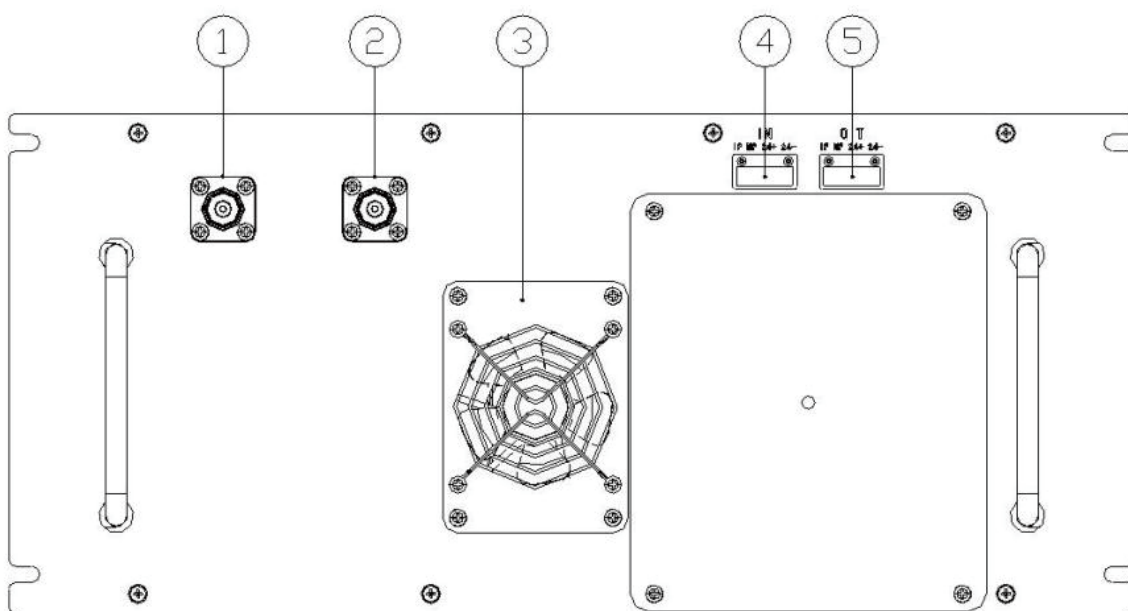
ECOSHIELD
TO A BETTER FUTURE

50kW 120kWh Energy Storage System



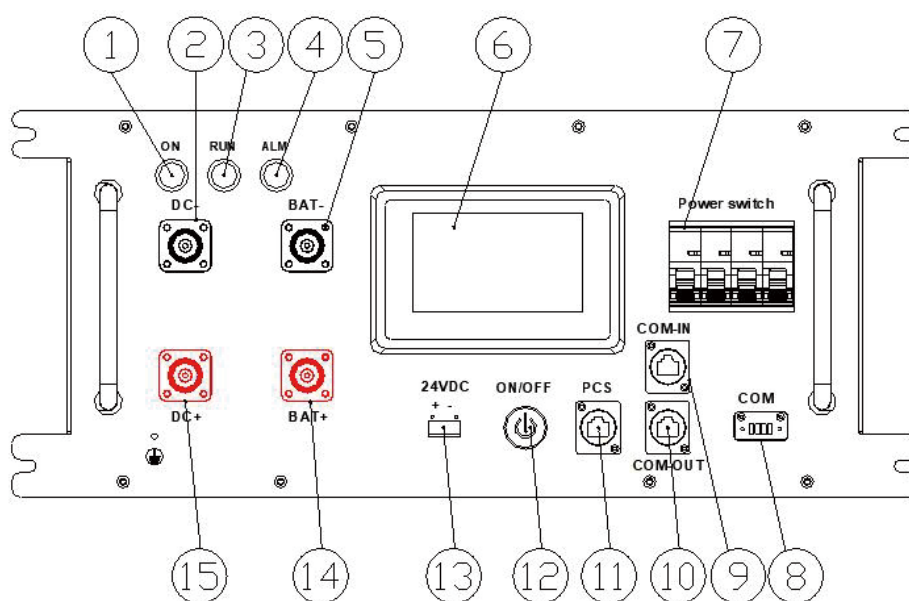
Product Overview

Battery Module



NO.	Item	Description
1	BAT+	Battery module positive pole (orange)
2	BAT-	Battery module negative pole (black)
3	Fan	/
4	COM-IN	Connection position of battery module communication
5	COM-OUT	Connection position of battery module communication

Main Control Box



NO.	Item	Description
1	ON	Power on
2	DC-	system output
3	RUN	Operation indicator
4	ALM	Alarm indicator
5	BAT-	Battery negative input
6	LCD	Touch screen
7	Power switch	/
8	COM	Communication with battery module
9	COM-IN	Parallel communication port
10	COM-OUT	Parallel communication port
11	PCS_CAN	Communication with inverters
12	ON/OFF	Start switch
13	24VDC	24VDC Power
14	BAT+	Battery positive electrode input
15	DC+	System output

Product Specifications

Battery Specifications

Model	CA-ESS50K120F
Battery Type	LFP
Number of Battery Packs	6
Rated Voltage	384V
Voltage Range	300~438V
Rated Energy	120.58kWh
Max. Continuous Charging And Discharging Current	120A
Discharge Depth	90%
Cycle Life	6000 times

PV Parameters	
Max. PV Input Power	75kW
Rated Input Voltage	620VDC
Max. Input Voltage	1000VDC
MPPT Voltage Range	150~850VDC
PV Input Current	40A*4
AC Side Parameters	
AC Rated Output Power	50kW
AC Max. Output Power	55kVA
AC Rated Input/Output Current	151.6/83.38A
Isotransformer	Transformerless
Voltage	3L/N/PE; 230/400V
Frequency	50/60Hz
THDi	≤3%
Power Factor	1 (-0.8~+0.8 adjustable)
System parameters	
Dimension (W*H*D)	W750*H2095*D1200mm
Weight	About 1400kg (±2%)
Communication	CAN/RS485/WiFi/ETH
Expansion	Support in parallel
Enclosure Protection Rating	IP54
Cooling	Air cooling
Operation Temperature	Charging:0~50°C/Discharge:-20~50°C
Humidity	10%~95%RH
Altitude	10 years, 5 years replace, and balance 5 years repair
Warranty	

* Specifications included in this datasheet are subject to change without notice. EcoShield reserves the right of final interpretation.

