

High Volage Lithium-Ion Phosphate Battery storage system

Battery Module : OL48V150A



Module	OL48V150A
Basic Parameters	
Capacity(kWh)	7.2
Nominal Voltage(Vdc)	48.0
Nominal Capacity(AH)	150
Voltage Range(Vdc)	40.5~54.0
Depth of Discharge	80%
Dimension(W* D* H,mm)	440*610*178
Design Life	15+ years (25°C)
Cycle Life	> 6000 (25°C)
Communication	CANBUS/Modbus RTU/TCP/IP
Protection Class	IP20
Weight(kg)	65.0
Operation Temperature	0~50°C
Storage Temperature	-20~60°C
Product Certificate	UN38.3

Main Controller : OL1000V250A



Basic Parameters

Related Product	1000V20A
AC Supply	—
System Operation Voltage (Vdc)	0~1000
Operation Current (Max.) (A)	250
Self-consumption Power(W)	8
Dimension (W* D* H, mm)	440*442*179
Communication	MODBUS RTU/CAN
Protection Class	IP20
Weight(kg)	20
Operation Life	15+
Operation Temperature	-20~65
Storage Temperature	-40~80

BMS Function

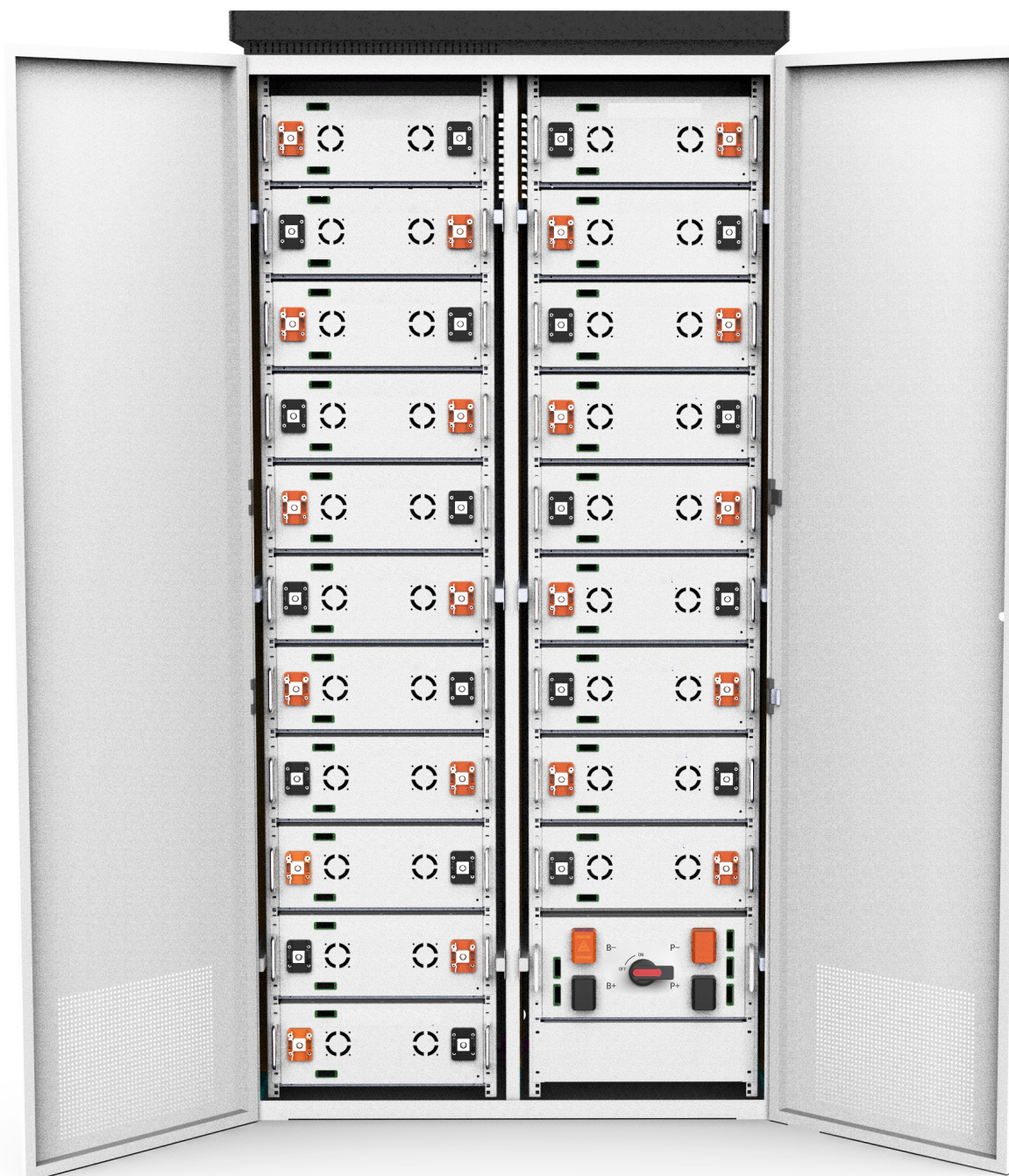
Protection and Alarm

Charge/Discharge End
 Charge Over Voltage
 Charge/Discharge Over Current
 High/Low Temperature
 Operation Record
 Administrator Monitor: Current,
 Voltage, Temperature, SOC&SOH.

Management and Monitor

Cells Balance
 Intelligent Charge Model
 Capacity Retention Calculate
 Isolation and Protection
 Alarm and Protection

Powercube OL20*48V250A System Volage < 1000V



Basic Parameters	
Battery System Capacity (kWh)	7.20* n
Battery System Voltage (Vdc)	48.0* n
Battery System Capacity (AH)	150
Battery Module	OLT48V150A
Battery Capacity(kWh)	7.2
Battery Modules Qty. (Optional)	1~19
Battery System Charge Upper-Voltage	54.0* n
Standard Operation Current(A)	20
Normal Operation Current(A)	50
Max. Operation Current(A)	100
Battery System Discharge lower-Voltage	40.5* n
Round-trip efficiency (@1C-rate)	95%
Depth of Discharge	90%
Dimension(W* D* H, mm)	600*700*2000
Communication	CANBUS/Modbus RTU/TCP/IP
Weight (kg)	140kg+65 kg* n
Operation Life	15+Years
Operation Temperature	10~40℃
Storage Temperature	-20~60℃
Humidity	5 – 95%(without condensing)
Altitude (m)	<4000
Product Certificate	IEC62619/CE/UN38.3

Main Controller : OL1000V300A

The bus cabinet is the dc side bus control unit of the energy storage battery system, which is connected with the high voltage box and storage.

Intermediate unit capable of converter; The power pool system (stack) is installed in the bus cabinet.

Switch off/circuit breaker (optional), three-level BMS (ESMU), and UPS power supply. Confluence ark.

The electrical characteristics, heat dissipation performance and safety performance of each component have been fully considered in the design.

And operation and maintenance, reasonable space layout, with compact structure, flexible configuration, security.

Full reliability and other characteristics. Three stage BMS module (ESMU) in the bus cabinet, with CAN,

Rs-485, RJ45 Ethernet communication interface, can be realized with high voltage box, PCS/UPS or

The communication function between EMS realizes the data communication and control of the energy storage battery management system and protection.



No	Item	Para Range	Quantity	Function	Remark
1	DC Breaker	630/1000/1250A	1	Main loop protection	
2	BMS	ESMU-10 II	1	Display communication contro	
3	Switching power supply	35W/75W 24V	1	Power Supply	
4	Miniature circuit breaker	S202-C64/20/10	/	Switch	
5	Emergency stop switch	LA38-22ZS	1	scram protection	
6	Repeaters	CR-MX024DC2L	/	Signal control and conversion	
7	LED instruction	ED16-22DSR(G/Y/R)	/	status indicator	
8	Surge protective devices (spd)	Ex9UEP 20 3P	1	Lightning protection bus	
9	Fuse	DC1500/1000V 300A	1	protection	
10	Terminal strip		/	Communication power signal conversion	