High Volage Lithium-Ion Phosphate Battery storage system

Battery Module : OHR-14.3K



Module	OHR-14.3K
Basic Parameters	
Capacity(kWh)	14.33
Nominal Voltage(Vdc)	51.2
Nominal Capacity(AH)	280
Voltage Range(Vdc)	46.4~57.6
Depth of Discharge	90%
Dimension(W* D* H,mm)	483*800*234
Design Life	15+ years (25℃)
Cycle Life	> 6000 (25℃)
Communication	CANBUS/Modbus RTU/TCP/IP
Protection Class	IP20
Weight(kg)	119
Operation Temperature	-20~55℃
Storage Temperature	0~35℃
Product Certificate	UN38.3

Main Controller : OHR-HV250H



Basic Parameters	
Related Product	1000V250A
AC Supply	—
System Operation Voltage (Vdc)	0~1000
Operation Current (Max.) (A)	250
Self-consumption Power(W)	8
Dimension (W* D* H, mm)	480*550*178
Communication	MODBUS RTU/CAN
Protection Class	IP20
Weight(kg)	23.2
Operation Life	15+
Operation Temperature	-20~65
Storage Temperature	-40~80

BMS Function

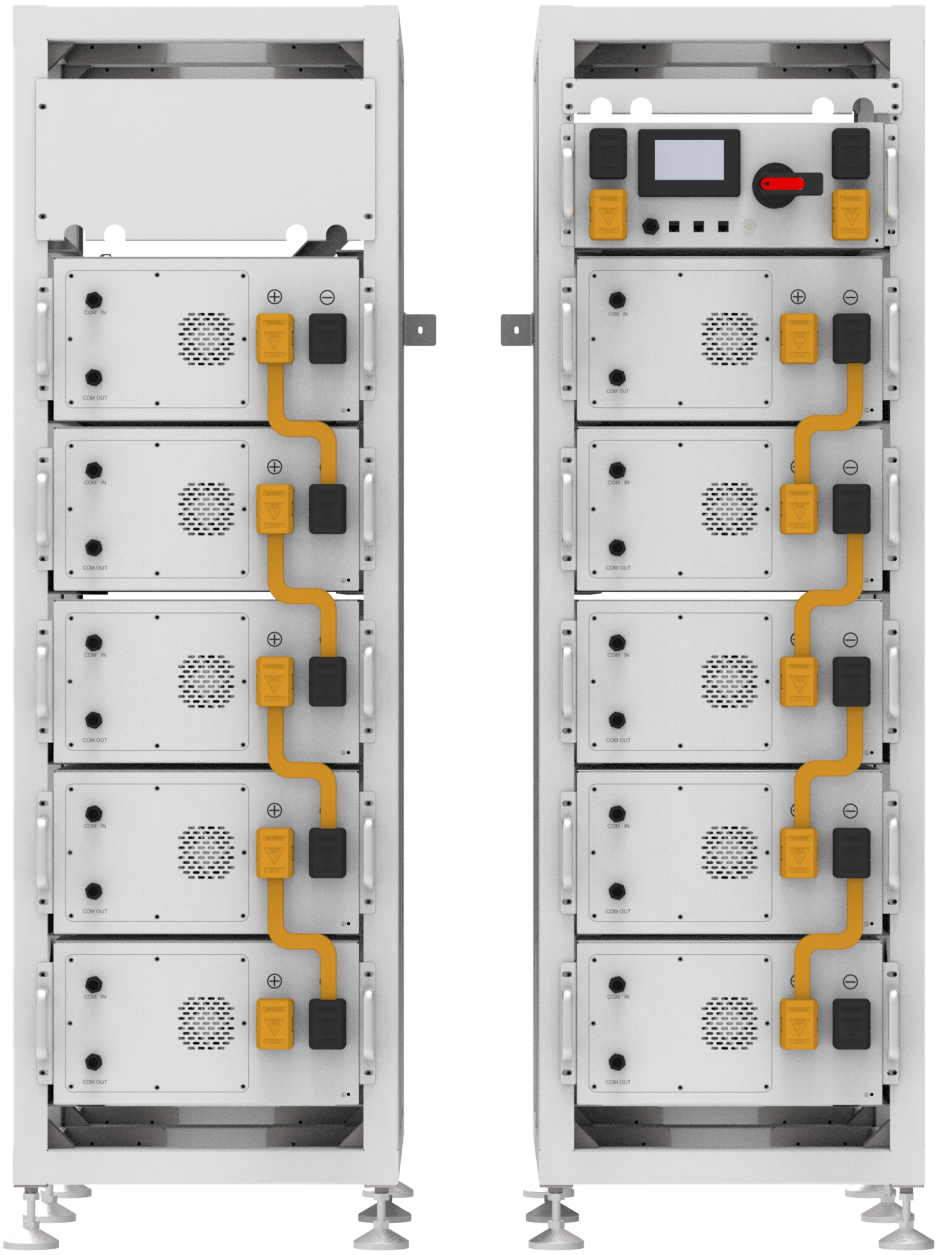
Protection and Alarm

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 OHR-280 System Volage < 1000V



Technical Data

Technical specification	43KWH	57KWH	71KWH	86KWH	100KWH	114KWH	129KWH	143KWH	157KWH	172kwh	186KWH	200KWH	215KWH
Installation Mode	Racked												
Battery Type	LifePO4(LFP)												
Module Energy(kWh)	14.33												
Module Nominal Voltage(V)	51.2												
Module Capacity(Ah)	280												
System Module	OHR43K-280	OHR57K-280	OHR71K-280	OHR86K-280	OHR100K-280	OHR114K-280	OHR129K-280	OHR143K-280	OHR157K-280	OHR172K-280	OHR186K-280	OHR200K-280	OHR215K-280
Nominal Voltage（V）	DC 153.6 V	DC 204.8 V	DC 256 V	DC 307.2 V	DC 358.4 V	DC 409.6 V	DC 460.8 V	DC 512.0 V	DC 563.2 V	DC 614.4 V	DC 665.6 V	DC 716.8 V	DC 768.0V
Working Voltage（V）	DC139.2V~172.8V	DC185.6V~230.4V	DC232.0V~,288.0V	DC278.4V~345.6V	DC324.8V~403.2V	DC371.2V~460.8V	DC417.6V~518.4V	DC 464.0V~576.0V	DC510.4V~633.6V	DC556.8V~691.2V	DC 603.2V~748.8V	DC 649.6V~806.4V	DC 696.0V~864.0V
Nominal Capacity（Ah）	280	280	280	280	280	280	280	280	280	280	280	280	280
Rated Energy（Wh）	43008	57344	71680	86016	100352	114688	129024	143360	157696	172032	186368	200704	215040
Dimension (mm，L±2;W±2;H±5)	547*799*1199	547*799*1463	547*799*1727	1054*799*1199	1054*799*1199	1054*799*1463	1054*799*1463	1054*799*1727	1054*799*1727	1054*799*1991	1054*799*1991	1054*799*2255	1054*799*2255
Weight (Kg)	462.2	591.2	720.2	880.2	998.2	1143.2	1261.2	1406.2	1524.2	1669.2	1787.2	1932.2	2050.2
Battery Module Qty In Series(Optional)	3	4	5	6	7	8	9	10	11	12	13	14	15
Recommend Charge/Discharge Current(A)	140												
Communication	CAN												
Ingress Protection	IP20												
Altitude	⩽2000m												
Cycle Life	25±2℃，0.5C/0.5C，EOL70%⩾6000												
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature												
SOC	Intelligent algorithm												
Working Temperature	0~55℃ Charge -20~55℃Discharge												
Storage Temperture	0-35℃												