



OHR-100

Rechargeable Li-ion Battery System

 **Smaller Footprint**
higher energy density benefit from latest LFP technology

 **Expandable**
Module design
Maximum 5.12kwh*12S*4P

 **Monitor**
Real-time monitoring of battery charging and discharging, online system updates and maintenance



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Cell Balance Function | 
Voltage Protection | 
Over Charge Protection | 
Over Discharge Protection |
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Over Current Protection | 
Short-circuit Protection | 
Temperature Protection | 
Soft Start Function |

OHR-100

Technical Data

Technical specification	15KWH	20KWH	25KWH	30KWH	35KWH	40KWH	45KWH	50KWH	55KWH	60KWH
Installation Mode	Rackable									
Battery Type	LifePO4(LFP)									
Module Energy (kWh)	5.12									
Module Nominal Voltage (V)	51.2									
Module Capacity (Ah)	100									
System Model	OHR15K-100	OHR20K-100	OHR25K-100	OHR30K-100	OHR35K-100	OHR40K-100	OHR45K-100	OHR50K-100	OHR55K-100	OHR60K-100
Battery Module Qty InSeries (Optional)	3	4	5	6	7	8	9	10	11	12
System Nominal Voltage (V)	153.6	204.8	256.0	307.2	358.4	409.6	460.8	512.0	563.2	614.4
System Operating Voltage (V)	139.2~170.4	185.6~227.2	232.0~284.0	278.4~340.8	324.8~397.6	371.2~454.4	417.6~511.2	464.0~568.0	510.4~624.8	556.8~681.6
System Nominal Capacity (KWh)	15.36	20.48	25.60	30.72	35.84	40.96	46.08	51.20	56.32	61.44
Usable Capacity (KWh)	12.29	16.38	20.48	24.58	28.67	32.77	36.86	40.96	45.06	49.15
Dimension (mm)	580*584.5*1578						580*584.5*2162			
Weight (Kg)	207.6	253.1	298.6	344.1	389.6	435.1	496.0	541.5	587.0	632.5
Recommend Charge/Discharge Current (A)	50									
Communication	CAN									
Ingress Protection	IP20									
Altitude	≤2000m									
Cycle Life	25±2°C, 0.5C/0.5C, EOL70%≥6000									
Monitoring Parameters	System voltage, Current, cell voltage, cell temperature, module temperature									
SOC	Intelligent algorithm									
Working Temperature	0°C~45°C Charge -10°C ~55°C Discharge									
Storage Temperature	0~35°C									

1. DC Usable Energy, test conditions: 80% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.

System Components

Model	Description
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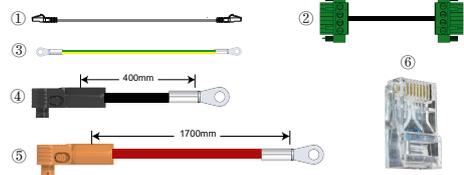
OHR-HV100L High voltage battery cluster control box

Operating Voltage 80~460Vdc
 Nominal Charge/Discharge Current DC 50A
 Max Charge/Discharge Current DC 100A
 Operating Temperature Range -10~55°C
 Ingress Protection IP20
 Dimension (W/D/H) 520*542*140 mm
 Weight Approximate 19.5kg



High voltage box Standard configuration:

- ① Communication cable
- ② Fan power cable
- ③ Earthing wire
- ④ 400mm power cable
- ⑤ 1700mm power cable
- ⑥ 120 Ω terminal resistance



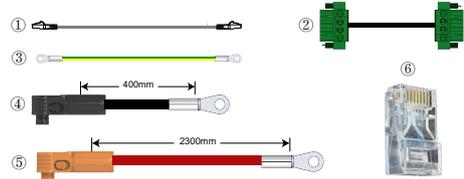
OHR-HV100H High voltage battery cluster control box

Operating Voltage 250~1000Vdc
 Nominal Charge/Discharge Current DC 50A
 Max Charge/Discharge Current DC 100A
 Operating Temperature Range -10~55°C
 Ingress Protection IP20
 Dimension (W/D/H) 520*542*140 mm
 Weight Approximate 19.5kg



High voltage box Standard configuration:

- ① Communication cable
- ② Fan power cable
- ③ Earthing wire
- ④ 400mm power cable
- ⑤ 2300mm power cable
- ⑥ 120 Ω terminal resistance



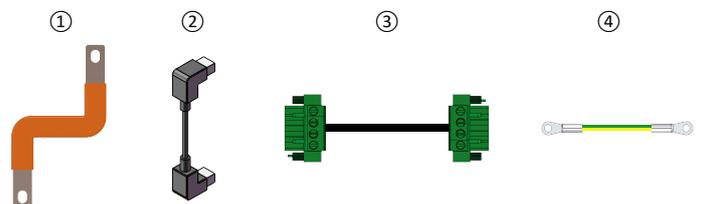
OHR-5K Rechargeable Li-ion Battery Module

Battery Type LiFePO4(LFP)
 Rated Voltage 51.2Vdc
 Rated Capacity 100Ah
 Rated Energy 5.12kWh
 Nominal Charge/Discharge Current 50A
 Peak Discharge Current 100A
 Charge Temperature 0°C~45°C
 Discharge Temperature -10°C~55°C
 Storage Temperature 0°C~35°C
 Ingress Protection IP20
 Dimension (W/D/H) 520*542*140mm
 Weight Approximate 45.8kg

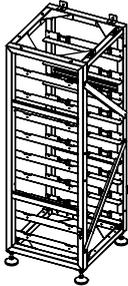
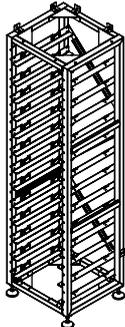


Battery module Standard configuration:

- ① Power copper bar
- ② Communication cable
- ③ Fan power cable
- ④ Earthing wire



System Components

Model	Description	
PC5.0 (Optional)	Standard 5-meter Positive power cable connected to the positive pole of the external Inverter	
4AWG Cable		
PC5.0 (Optional)	Standard 5-meter Negative power cable connected to the negative pole of the external Inverter	
4AWG Cable		
COM Cable5.0 (Optional)	Standard 5-meter communication cable connected to the external Inverter	
		
OHR-3U-HRACK	Racks for 8pcs batteries and 1pc BMS	
Dimension (W/D/H)	580*540*1587mm	
Weight Approximate	48.6kg	
OHR-3U-HRACK	Racks for 12pcs batteries and 1pc BMS	
Dimension (W/D/H)	580*540*2162mm	
Weight Approximate	62.5kg	