



OHA 100-280

Rechargeable Li-ion Battery System



Smaller Footprint

higher energy density benefit from latest LFP technology



Expandable

Module design
Maximum 14.3kwh*14S*2P



Monitor

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



Fire fighting

Lithium Iron Phosphate (LFP) Battery,
The battery pack and system adopt an aerosol fire extinguishing solution



Cell Balance
function



Voltage
Protection



Over Charge
Protection



Over Discharge
Protection



Over Current
Protection



Short-circuit
Protection



Temperature
Protection



Soft Start
Function

OHA 100-280

Technical Data

Model	OHA 100-280
Main Parameter	
Cell Chemistry	LiFePO4
Module Energy (kWh)	14.33
Module Nominal Voltage (V)	51.2
Module Capacity (Ah)	280Ah
Battery Module Qty In Series (Optional)	7
System Nominal Voltage (V)	358.4
System Operating Voltage (V)	313.6~408.8
System Energy (kWh)	100.35
System Usable Energy (kWh)	90.31
Recommend Charge/Discharge Current (A)	100
Max Charge/Discharge Current (A)	140
Dimension (W/D/H,mm)	895*1367*2179 (Inverter not included) 1120*1367*2179 (Inverter included)
Weight Approximate (kg)	~1400
Installation Location	Floor-mounted
Communication	CAN
Ingress Protection	IP55
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	-20°C~55°C
Storage Temperature	0~35°C

1. DC Usable Energy, test conditions: 90% 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(Included)

HIGH VOLTAGE OUTDOOR WATERPROOF CABINET

Waterproof Rating	IP55
Dimension (W/D/H)	985*1367*2179mm (Inverter not included) 1223*1367*2179mm (Inverter included)
Weight Approximate	670kg



HIGH VOLTAGE BATTERY CLUSTER CONTROL BOX

Operating Voltage	1000Vdc
Nominal Charge/Discharge Current	140A
Max Charge/Discharge Current	140A
Operating Temperature Range	-20~55°C
Dimension (W/D/H)	480*630*178mm
Weight Approximate	25kg



RECHARGEABLE LI-ION BATTERY MODULE

Battery Type	LiFePO4(LFP)
Nominal Voltage	51.2Vdc
Rated Capacity	280Ah
Rated Energy	14.33kWh
Nominal Charge/Discharge Current	140A
Peak Discharge Current	140A
Charge Temperature	0~45°C
Discharge Temperature	-10 °C~ 55°C
Storage Temperature	0 °C~ 35°C
Dimension (W/D/H)	480*800*233mm
Weight Approximate	120kg



THREE PHASE HIGH-VOLTAGE INVERTER

Input DC (PV side)

Models	50K
Recommended max. PV array size	100KW
Max. input voltage	1000V
Rated voltage	600V
MPPT voltage range	150 - 850 V
Max. input current	4X36A
Max. short circuit current	4X55A
MPPT number / Max. input strings number	4/2+2+2+2

Output AC (Grid side)

Rated output power	50kW
Max. apparent output power	55kVA
Rated grid voltage	3L/N/PE, 220 V / 380 V; 230 V / 400 V
Rated grid frequency	50Hz/45-55Hz, 60Hz/55-65Hz
Rated grid output current	75.8A/72.5A
Max. output current	83.4A/79.8A
Power factor	0.8 leading to 0.8 lagging
THDi	<3% (of nominal power)

Input AC (Grid side)

Max. AC passthrough current	200A
Rated input voltage	3L/N/PE, 220 V / 380 V; 230 V / 400 V
Rated input frequency	50Hz/45-55Hz, 60Hz/55-65Hz

Efficiency

Max. efficiency	97.6%
Euro Efficiency	97.0%
MPPT Efficiency	>99%

General Data

Dimensions (W × H × D)	527mm×894mm×294mm (Excluding Connectors and Brackets)
Weight	80 kg
Operating ambient temperature range	-40 to +60℃, >45℃ Derating
Relative humidity	0-100%
Ingress protection	IP66
Cooling concept	Intelligent Air Cooling
Max. operation altitude	2000 m
Safety / EMC standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2



OUTDOOR POWER CABINET AIR CONDITIONING

Cooling/Heating Capacity

Cooling capacity @ L35 L35	2000W
Heating capacity (optional)	1000W

Power Consumption

Cooling Input Power @ L35 L35	780W
Cooling Input Current @ L35 L35	3.6A

Air Volume

Internal Circulation Air Volume	m³/h
---------------------------------	------

Power Supply System

Power Supply Range	220V±15%,50Hz
Maximum Current	5.0A

Size And Quality

Dimensions (Width X Depth X Height)	495×195×795mm
Weight	32KG

