

Home Energy Storage (Rack mountable)



High energy density and conversion efficiency



Intelligent software anti-theft design



Compatible with many inverters



Easy maintenance with SOC (charge status)
and SOH (health status) detection

◀ **KEY
STRENGTHS**

Specification

	Items	Parameters
basic parameter	Specifications and models	ZHR-48100
	Nominal voltage	51.2V
	Nominal capacity	100Ah@0.5C,25°C
	Maximum continuous charge/ discharge current	50A/100A@25°C
	Maximum charge/discharge voltage	57.6V/43.2V
	Weight	About.42kg
	Dimensions(W × D × H)(inch)	442mm×431mm×177mm (17.40*16.67*6.97)
	Cycle life	5000 Cycles @ 25°C 0.2C,80%DOD
	Number of parallel connections supported	16
	Self-discharge(month)@25°C	≤3%
	BMS communication types	RS485;RS232;CAN
	Cooling Mode	Free cooling
	IP Class	IP30
	Display Fuction	LCD diplay screen,support English
	Design Life	15 years
	Shell Material	Q235A
Certification (Program)	CE UN38.3 IEC	
Environment	Storage Temperature	-40°C to 60°C
	Transport Temperature	-40°C to 60°C
	Operate Temperature	charge:0°C to 45°C;discharge:-10C to 55°C (45°C Load reduced)
	Relative Humidity	5% to 95%
	Working Pressure	76kPa~106kPa

Note: When the battery pack needs to be stored for a long time, please charge the battery pack to about 50% power, and cycle the standard charge/discharge current at least once every month, and every three months. The battery should be activated once every three months with a small current (0.1C). Environmental requirements: temperature 0 ° C~35 ° C, relative humidity 45%~85%, atmospheric pressure 70kPa~106kPa. Place in dry and ventilated place, avoid contact with corrosive substances, keep away from fire and heat source.

Discharging Diagram

Time(h)	1h	2h	3h	5h	10h
Constant Current (A)	100A	50A	33A	20A	10A
Constant Power (W)	5120W	2560W	1690W	1024W	512W