

SUPER CAPACITOR MODULE

TECHNICAL DATA SHEET

Part Number: SY748V1078KWh31R | Version Date: December 2024



Scope

This specification is applied to super capacitor battery pack manufactured by Shanghai SUPRO Energy Tech Co.,Ltd.

1. Ratings

Part Number	SY748V1078KWh31R
Module	
Rated Energy	10.4KWh
Nominal Voltage	57.6V
Nominal Capacity	180Ah
Min Voltage	52.2V
Max Voltage	64.8V
Charging Current Rate	180A
Discharging Current	180A
Battery Rack	
Energy Per Rack	134.8KWh
Rack Rated Voltage	748.8V
Nominal Capacity	180Ah
Rack Minimum Voltage	678.6V
Rack Maximum Voltage	842.4V
Charging Current Rate	180A
Discharging Current Rate	180A
PDU-Rack	1pcs
Modules Number	13pcs
Battery System	
Energy Per Rack	1078.3 KWH
Rack Rated Voltage	748.8V
Nominal Capacity	1440Ah
Rack Minimum Voltage	678.6V
Rack Maximum Voltage	842.4V
Charging Current Rate	1440A
Discharging Current	1440A
PDU-Rack	8 pcs

Modules Number	104 pcs
Cells Self-discharge Rate	2% per month
Projected Cycle Life (25 °C)	20000 times
Warranty	15 years
Cooling	Natural cooling
Case material	Steel case
Storage Temperature	-20°C~40 °C
Storage Humidity	25% ~ 95%RH
Operating Temperature(Discharge)	"-20 °C~60 °C
Operating Temperature(Charge)	0 °C~55 °C

2. Caution

- 2.1 Place the battery out of the reach of children and infants.
- 2.2 Do not place the battery in microwave ovens or other similar appliances.
- 2.3 Do not remove the product label.
- 2.4 Do not attempt to open or service the battery pack.
- 2.5 Do not expose to temperatures above 80°C.
- 2.6 Do not short-circuit the positive and negative terminals of the battery with wire or other metallic objects. Do not transport or store the battery with metallic items.
- 2.7 Do not expose the battery to direct heat or flame, and do not use or store it near a fire or a location, subject to high temperatures. In addition, do not immerse or dampen the battery in water, saltwater, or any other liquid.
- 2.8 Do not puncture the battery with any sharp objects, hit it with a hammering device or similar device, step on it, drop it or subject it to strong shock.
- 2.9 Do not use battery if it is damaged or deformed.
- 2.10 Immediately cease use of the battery if it produces strange smells or smokes or becomes abnormally hot.
- 2.11 If the battery fluids leak and come into contact with an eye, do not rub the eye and immediately flush it with plenty of water before seeking medical assistance.

3. Notes

- 3.1 The pictures in the file are only for reference.
- 3.2 We reserve the final explanations of the items in this specification. This proposal is applicable for prototype.