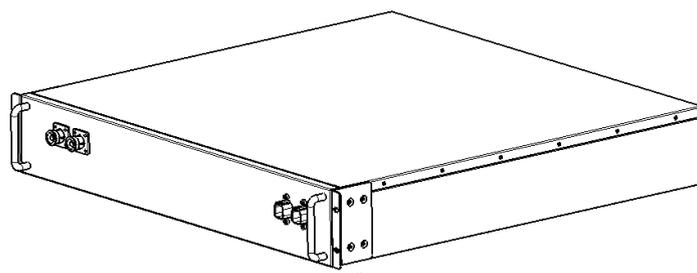
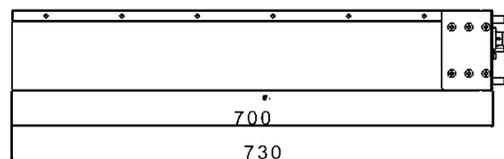
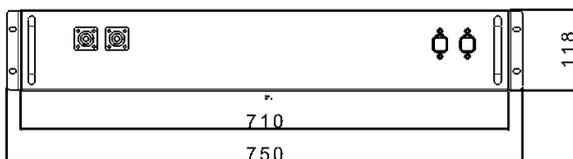
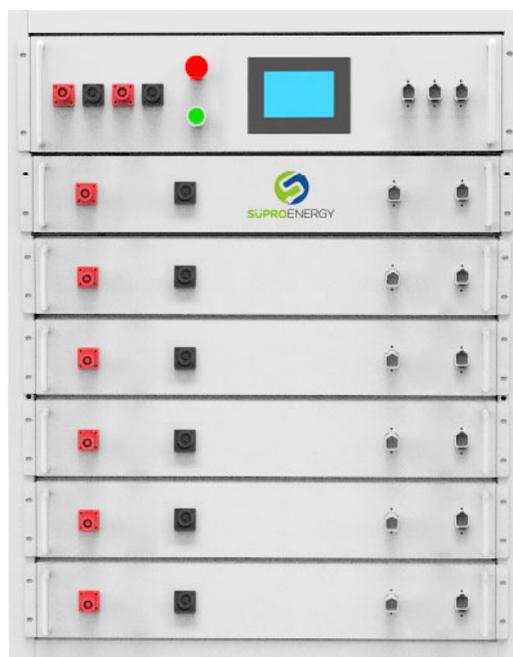


SUPER CAPACITOR SYSTEM

TECHNICAL DATA SHEET

Part Number: SY384V50KWH31R | Version Date: January 2023



Part Number	SY384V50K31R
Usable Energy	50KWh
Cell Type	super capacitor battery
Rated Voltage	384V/DC
Rack Minimum Voltage	312V/DC
Rack Maximum Voltage	432V/DC
Dimensions(WxDxH)	750x730x1008(mm)
ESR/AC @1KHz	<100mΩ
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Weight	380Kg
Configuration	108S6P
Discharge Temperature	-20°C~+60°C
Charge Temperature	0°C~+55°C
Cooling Method	Natural cooling
Operating Humidity	0~90% RH Non-condensing
Cells Self-discharge Rate	2% per month
Projected Cycle Life (25°C)	20,000 times
Warranty	15 years
Recommended Depth of Discharge	≤ 90%
Maximum Depth of Discharge	100%
Shell Material	Metal & ABS plastic
Monitoring Data	System voltage,current, temperature, SOC,SOH,cycle,cell's voltage
Indicator light display	Capacity %
Environmental Protection	Customized
IP Grade	IP65
Storage Conditions	-20°C~+40°C 25% ~ 95%RH SOC>30%, one full charge needed per two months

1. Caution

- 1.1 Place the battery out of the reach of children and infants.
- 1.2 Do not place the battery in microwave ovens or other similar appliances.
- 1.3 Do not remove the product label.
- 1.4 Do not attempt to open or service the battery pack.
- 1.5 Do not expose to temperatures above 80°C.
- 1.6 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.
- 1.7 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.
- 1.8 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.
- 1.9 Do not use battery if it is damaged or deformed.
- 1.10 Immediately cease use of the battery if it produces strange smells or smokes or becomes abnormally hot.
- 1.11 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.

2. Notes

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