

SGUC Series Ultra Capacitor Module

Samgor's Ultra Capacitor Module— Utilizing super capacitor monomers with premium electrical performance, we integrate abundant energy into miniaturized packages via soldering or laser welding. Our compact, well-engineered modules deliver high-voltage energy storage through series and parallel assembly.



KEY ADVANTAGES

- High Energy Density
- High Power Density
- Long Cycle Life
- Safe and Reliable
- Environment-Friendly
- Maintenance-Free
- Charge-Discharge Speed at the Scale of Second

Application

- Heavy-Duty Machinery
- Electric Energy Storage
- New Energy
- Rail Transit
- National Defense And Military Industry

Technical Data

Module No:	SGUC48/187	SGUC144/62
Rated Capacitance Range:	187.5F	62.5F
Capacitance Tolerance:	-0% / +20%	-0% / +20 %
Rated Voltage Range:	48V	144V
Recommended Operating Voltage	45V	≤132V
Surge Voltage:	50.4V	148V
Internal Resistance:	DC / 4 MΩ@25°C	DC / 4 mΩ@25°C
72-hours Leakage Current:	4μA	12μA
Maximum Continuous Current:	154A	128A
1s Maximum Peak Current:	2926A	2500A
Rated Stored Energy:	60Wh	180Wh
Energy Density:	4.54 Wh/kg	5Wh/kg
Power Density:	5.23kW/kg	4.61kW/kg
Temperature for Operation:	-40 ~ +65°C	-40 ~ +65°C
Temperature for Storage:	-40 ~ +70°C	-40 ~ +70°C
Insulation Resistance:	100MΩ (1000Vdc/1min)	≥100MΩ (2500Vdc/1min)
Pressure Resistance Strength:	3000V (DC,1min) $I_{leak} \leq 5mA$	3000V (DC,1min) $I_{leak} \leq 5mA$
DC Life at RT (65°C) :	1500 hours	1500 hours
DC Life at RT (25°C) :	10 years	10 years
Cycle Life at 1/2 RT((25°C) :	1,000,000 cycles	1,000,000 cycles
Shelf Life (25°C, uncharged) :	4 years	4 years

Product Detail:



Contact us

SHANGHAI JIUZHI ELECTRIC CO.,LTD

Add: 39 A No. 866, Wuliu Avenue,Pudong, Shanghai, China

Tel:86-21-58999552

E-mail: info@samgor.com

[Http://www.samgor.com/](http://www.samgor.com/)

