

SuperCapacitors



ACADA
RENEWABLE EXPERIENCE

Powering the Future:
Advanced Super Capacitors

Charge Ahead: Unmatched
Longevity - up to
1.000.000 cycles

Resilience Meets Innovation:
Super Capacitors for Extreme
Environments
-40°C ~ +65°C

Stay Powered: Reliable
Energy Solutions for Critical
Applications

Unleash Extreme Power:
Super Capacitors for up to
incredible **2900A** Peak
Load



Property	200252/200253 2.7V 2000F	200250/200251 2.7V 3000F	200248/200249 2.7V 3400F	200246/200247 3V 1500F	200244/20245 3V 3000F	200227/200243 3V 3400F
Weight	≤ 375 g	≤ 502 g	≤ 520 g	≤ 320 g	≤ 525 g	≤ 520 g
Size (∅ x length) without terminal	60 mm x 102.5 mm	60 mm x 138.9 mm	60 mm x 138.9 mm	60 mm x 85 mm	60 mm x 138.9 mm	60 mm x 138.9 mm
Rated capacitance	2000 F	3000 F	3400 F	1500 F	3000 F	3400 F
Energy storage	2.03 Wh	3.04 Wh	3.44 Wh	1.88 Wh	3.75 Wh	4.25 Wh
Energy density	5.4 Wh/kg	6.0 Wh/kg	6.6 Wh/kg	5.9 Wh/kg	7.1 Wh/kg	8.2 Wh/kg
Capacitance tolerance	0% ~ +10%			0% ~ +20%	0% ~ +20%	0% ~ +10%
Rated Voltage	2.7 V			3.0 V		
Surge Voltage	2.85 V			3.15 V		
Operating temperature	-40 °C ~ +65 °C					
Storage temperature	-40 °C ~ +70 °C					
Max. continuous current (ΔT = 15°C)	129 A	149 A	161 A	103 A	146 A	145 A
Max. continuous current (ΔT = 40°C)	210 A	244 A	263 A	169 A	238 A	238 A
Peak current (1s)	1775 A	2480 A	2847 A	1536 A	2710 A	2917 A
Leakage current @25°C	3 mA	5.2 mA	10 mA	8 mA	12 mA	12 mA
ESR	AC(1KHZ)	0.15 mΩ	0.15 mΩ	12 mA	0.20 mΩ	0.15 mΩ
	DC 0.1s	0.23 mΩ	0.15 mΩ	0.15 mΩ	0.28 mΩ	0.18 mΩ
	DC 1s	0.26 mΩ	0.18 mΩ	0.18 mΩ	0.31 mΩ	0.22 mΩ
	DC 5s	0.30 mΩ	0.22 mΩ	0.22 mΩ	0.35 mΩ	0.24 mΩ
Usable specific power	8.97 kW/kg	8.3 kW/kg	9.35 kW/kg	10.89 kW/kg	9.44 kW/kg	9.44 kW/kg
Impedance match specific power	21.13 kW/kg	20.1 kW/kg	23.37 kW/kg	25.11 kW/kg	23.8 kW/kg	24.04 kW/kg
Thermal resistance	3.5 °C/W	3.2 °C/W	3.2 °C/W	4.5 °C/W	3.2 °C/W	3.2 °C/W
Thermal capacitance	520 J/°C	600 J/°C	600 J/°C	320 J/°C	600 J/°C	600 J/°C
Cycle life at 25°C	1.000.000 cycles					500.000 cycles
Vibration	ISO 16750-3					
Shock	SAE J2464					
Safety	RoHS, REACH					
Terminals	Weldable or M12					