

DATA SHEET

SkelCap

- + Capacitance 3000 F
- + Extreme power density
- + Durable and safe aluminum casings
- + Threaded terminals
- + High cycle life >1,000,000 cycles
- + RoHS & UL810A compliant





GENERAL SPECIFICATIONS	VALUE	UNIT	
Rated voltage V _R Surge voltage V _s Specific energy Nominal specific power Practical specific power	2.85 3.0 6.4 21 17	V V Wh/kg kW/kg kW/kg	
TEMPERATURE AND LIFE	VALUE	UNIT	
Operating temperature range Minimum Maximum Storage temperature range (uncharged) Minimum Maximum Life Lifetime at V_R and +65 °C Capacitance decrease 20% against rated value; 1s ESR increase 100% against rated value Storage life @ RT, uncharged Cyclelife @ RT, between V_R and $V_R/2$	-40 +65 -40 +50 1500	°C °C °C Hours Years Cycles	
GENERAL	VALUE	UNIT	
Rated capacitance Total (5s) DC ESR, Rated at 150A DC 1s ESR, rated at 50A DC 10ms ESR, rated at 50A	3000 0.26 0.23 0.18	F mΩ mΩ mΩ	
ENERGY	VALUE	UNIT	
Stored energy ² Specific energy ³ Energy density ⁴	3.38 6.4 8.7	Wh Wh/kg Wh/L	

POWER*	VALUE	UNIT
Nominal power*, calculated from 10 ms ESR (for comparison)		
Specific power, matched Impedance ⁶	21.3	kW/kg
Power density, matched Impedance ⁷	28.9	kW/L
Practical power*, calculated from 1 s ESR (for engineering)		
Power, matched impedance ⁵	8.8	kW
Specific power, matched Impedance ⁶	16.7	kW/kg
Power density, matched impedance ⁷	22.6	kW/L

STANDARDS AND CERTIFICATIONS

Vibration Specification Shock Resistance Certifications Standards ISO 16750-3 Table 12 IEC60068-2-27 Shock Test RoHS REACH, UL810A

THERMAL*	VALUE	UNIT
Thermal resistance, R_{ca} , typical Thermal capacitance, C_{th} , typical Max continuous current, $\Delta T = 15^{\circ}C^{8}$ Max continuous current, $\Delta T = 40^{\circ}C^{8}$	4.1 0.58 126 206	°C/W kJ/°C A A

PHYSICAL PARAMETERS	VALUE	UNIT
Mass. Typical	0.53	kg
Volume	0.39	L
Diameter	60	mm
Length	138	mm

