

## **DATA SHEET**

## SkelCap

- + Capacitance 3400 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 <sub>R</sub> Surge voltage V <sub>s</sub> Specific energy Nominal specific power Practical specific power	2.85 3.0 7.1 22 18	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 <sub>R</sub> and +65 °C Capacitance decrease 20% against rated value; Is ESR increase 100% against rated value Storage life @ RT, uncharged	-40 +65 -40 +50 1500	°C °C °C Hours		
Cyclelife @ RT, between $V_{\scriptscriptstyle R}$ and $V_{\scriptscriptstyle R}/2$	1,000,000	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	3400 0.23 0.21 0.17	F mΩ mΩ mΩ		
<b>ENERGY</b>	VALUE	UNIT		
Stored energy <sup>2</sup> Specific energy <sup>3</sup> Energy density <sup>4</sup>	3.84 7.1 9.8	Wh Wh/kg Wh/L		

POWER*	VALUE	UNIT
N		
Nominal power*, calculated from 10 ms ESR (for comparison)		
Specific power, matched Impedance <sup>6</sup>	22.1	kW/kg
Power density, matched Impedance <sup>7</sup>	30.6	kW/L
Practical power*, calculated from 1 s ESR (for engineering)		
Power, matched impedance <sup>5</sup>	9.7	kW
Specific power, matched Impedance <sup>6</sup>	17.9	kW/kg
Power density, matched impedance <sup>7</sup>	24.8	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, $\Delta T = 40^{\circ}C^{8}$	3.35 0.6 143 233	°C/W kJ/°C A A

PHYSICAL PARAMETERS	VALUE	UNIT	
Mass. Typical	0.54	kg	
Volume	0.39	L	
Diameter	60	mm	
Length	138	mm	

