

# **UltraCap**<sup>®</sup>

Module 200 F/ 14 V

Series/Type:

Ordering code: B48621A4205Q006

Date: March 2005

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UltraCap<sup>®</sup> B48621A4205Q006

### Module, 200 F/ 14 V

#### **Features**

- Screw terminal M8 × 15 (plus, minus)
- Active cell voltage balancing
- Case material polyethylene, black
- Power type
- 6 serial single cells of 1200 F
- Maintenance-free
- Short-circuit-proof
- Low ESR due to laser-welded interconnections

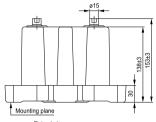
### **Options**

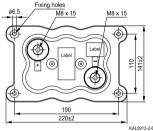
Passive cell voltage balancing (by resistor)

#### Note

Please pay attention to the safety, transport and waste disposal instructions in chapter "Cautions".

## **Dimensional drawing**





Dimensions in mm

## **Electrical specifications**

Rated capacitance	$(T_A = 25  {}^{\circ}C;  DCC)^{1)}$	C <sub>R</sub>	200	F
Tolerance of C <sub>R</sub>			-10/+30	%
Rated voltage	(T <sub>A</sub> = 25 °C)	$V_R$	14	V
Capacity			780	mAh
Specific power	(IEC 62391-2)		1.7	kW/kg
Specific power	(IEC 62391-2)		1.4	kW/l
Stored energy	$(V = V_B)$	E	19600	J
Specific energy	$(V = V_B)$		1.9	Wh/kg
Specific energy	$(V = V_B)$		1.7	Wh/I
Surge voltage		$V_{\text{surge}}$	16	V
Maximum series resistance	(T <sub>A</sub> = 25 °C; 1 kHz)	ESŘ	2.6	mΩ
Maximum series resistance	$(T_A = 25  ^{\circ}C; 50  \text{mHz})$	ESR <sub>DC</sub>	5.0	mΩ
Weight			2.8	kg
Volume			3.3	I
Operating temperature range		T <sub>op</sub>	-30/+70	°C
Storage temperature	(V = 0 V)	T <sub>st</sub>	-40/+70	°C
Lifetime (hours) 2)	$(T_A = 25  ^{\circ}C; V = V_B)$		90000	h
Lifetime (cycles) 3)	$(T_A = 25  ^{\circ}C; I = 50  A)$		500000	cycles

<sup>1)</sup> DCC: discharging with constant current.

<sup>2)</sup> Requirements:  $|\Delta C/C_R| \le 30\%$ , ESR  $\le 2$  times of specified limit,  $I_{leak} \le 2$  times of initial value.

<sup>3)</sup> Requirements:  $|\Delta C/C_R| \le 30\%$ , ESR  $\le 2$  times of specified limit,  $I_{leak} \le 2$  times of initial value (1 cycle: charging to  $V_R$ , 30 s rest, discharging to  $V_R/2$ , 30 s rest).