

$\textbf{UltraCap}^{\circledR}$

Module 110 F/ 56 V

Series/Type:

Ordering code: B48621A9115Q024

Date: March 2005

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UltraCap[®] B48621A9115Q024

Module, 110 F/ 56 V

Features

- Screw terminal M8 × 15 (plus), M10 × 15 (minus)
- Active cell voltage balancing
- Case material polyethylene, black
- Power type
- 24 serial single cells of 2700 F
- Maintenance-free
- Short-circuit-proof
- Low ESR due to laser-welded interconnections

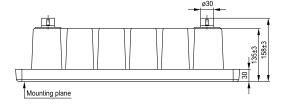
Options

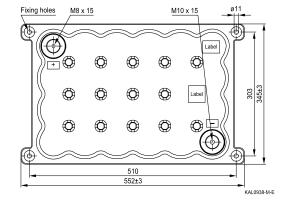
■ Passive cell voltage balancing (by resistor)

Note

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

Dimensional drawing





Dimensions in mm

Electrical specifications

		_	T	
Rated capacitance	$(T_A = 25 ^{\circ}C; DCC)^{1)}$	C_R	110	F
Tolerance of C _R			-10/+30	%
Rated voltage	(T _A = 25 °C)	V_R	56	V
Capacity			1700	mAh
Specific power	(IEC 62391-2)		1.7	kW/kg
Specific power	(IEC 62391-2)		1.7	kW/l
Stored energy	$(V = V_R)$	E	172480	J
Specific energy	$(V = V_R)$		2.2	Wh/kg
Specific energy	$(V = V_R)$		2.1	Wh/I
Surge voltage		V_{surge}	64	V
Maximum series resistance	(T _A = 25 °C; 1 kHz)	ESR	5.0	mΩ
Maximum series resistance	$(T_A = 25 ^{\circ}C; 50 \text{mHz})$	ESR_{DC}	10.0	mΩ
Weight			22.0	kg
Volume			22.0	1
Operating temperature range		T_{op}	-30/+70	°C
Storage temperature	(V = 0 V)	T _{st}	-40/+70	°C
Lifetime (hours) 2)	$(T_A = 25 {}^{\circ}C; V = V_R)$		90000	h
Lifetime (cycles) 3)	$(T_A = 25 ^{\circ}C; I = 100 A)$		500000	cycles

¹⁾ DCC: discharging with constant current.

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

³⁾ Requirements: $|\Delta C/C_R| \le 30\%$, ESR ≤ 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).