

UltraCap[®]

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 x 15 (plus), M10 x 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

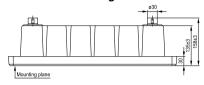
Options

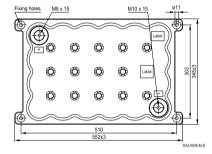
Passive cell voltage balancing (by resistor)

Note

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

Dimensional drawing





Dimensions in mm

Electrical specifications

	<u> </u>	1 _	T	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	$(T_A = 25 ^{\circ}C; 1 \text{kHz})$	ESR	5.0	$m\Omega$
Maximum series resistance	$(T_A = 25 ^{\circ}C; 50 \text{mHz})$	ESR _{DC}	10.0	$m\Omega$
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: $|\Delta C/C_B| \le 30\%$, 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).