

UltraCap[®]

Module 450 F/ 14 V

Series/Type:

Ordering code: B48621A4455Q006

Date: March 2005

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UltraCap[®] B48621A4455Q006

Module, 450 F/ 14 V

Features

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

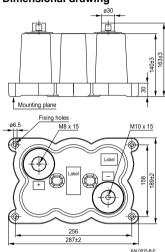
Options

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

Rated capacitance	(T _A = 25 °C; DCC) ¹⁾	C _R	450	ĪF
Tolerance of C _R	(1A = 23 3, 233)	O _R	-10/+30	%
Rated voltage	(T ₄ = 25 °C)	V_R	14	v
Capacity	(· A = 3 = 3)	•н	1800	mAh
Specific power	(IEC 62391-2)		1.6	kW/kg
Specific power	(IEC 62391-2)		1.6	kW/l
Stored energy	$(V = V_R)$	E	44100	J
Specific energy	$(V = V_B)$	_	2.0	Wh/kg
Specific energy	$(V = V_R)$		2.0	Wh/I
Surge voltage	(11)	V_{surge}	16	V
Maximum series resistance	(T ₄ = 25 °C; 1 kHz)	ESR	1.4	mΩ
Maximum series resistance	(T _A = 25 °C; 50 mHz)	ESR _{DC}	2.4	mΩ
Weight	,	- 50	6.0	kg
Volume			6.2	lı
Operating temperature range		T _{op}	-30/+70	°C
Storage temperature	(V = 0 V)	T _{st}	-40/+70	°C
Lifetime (hours) 2)	$(T_A = 25^{\circ}C; V = V_B)$		90000	h
Lifetime (cycles) 3)	(T _A = 25 °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).