

UltraCap[®]

Module 600 F/ 14 V

Series/Type:

Ordering code: B48621A4605Q006

Date: March 2005

© EPCOS AG 2005. Reproduction, publication and dissemination of this data sheet, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.



UltraCap[®] B48621A4605Q006

Module, 600 F/ 14 V

Features

- Screw terminal M8 × 15 (plus), M10 × 15 (minus)
- Active cell voltage balancing
- Case material polyethylene, black
- Power type
- 6 serial single cells of 3600 F
- Maintenance-free
- Short-circuit-proof
- Low ESR due to laser-welded interconnections

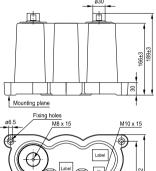
Options

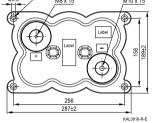
Passive cell voltage balancing (by resistor)

Note

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

Dimensional drawing





Dimensions in mm

Electrical specifications

Rated capacitance	$(T_A = 25 ^{\circ}C; DCC)^{1)}$	CR	600	F
Tolerance of C _R			-10/+30	%
Rated voltage	(T _A = 25 °C)	V_R	14	V
Capacity			2300	mAh
Specific power	(IEC 62391-2)		1.9	kW/kg
Specific power	(IEC 62391-2)		1.8	kW/l
Stored energy	$(V = V_B)$	E	58800	J
Specific energy	$(V = V_B)$		2.3	Wh/kg
Specific energy	$(V = V_B)$		2.2	Wh/I
Surge voltage		V_{surge}	16	V
Maximum series resistance	$(T_A = 25 ^{\circ}C; 1 \text{kHz})$	ESR	1.0	mΩ
Maximum series resistance	$(T_A = 25 ^{\circ}C; 50 \text{mHz})$	ESR _{DC}	1.8	mΩ
Weight			7.0	kg
Volume			7.4	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).