



UltraCap[®]

Module
200 F/ 42 V

Series/Type:
Ordering code: B48621A7205Q018
Date: March 2005

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Features

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

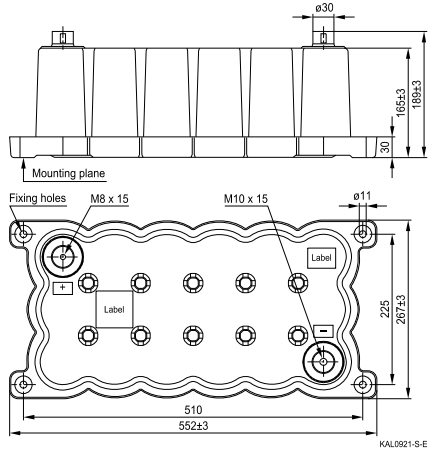
Options

- 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	($T_A = 25\text{ }^{\circ}\text{C}$; DCC) ¹⁾	C_R	200	F
Tolerance of C_R			-10/+30	%
Rated voltage	($T_A = 25\text{ }^{\circ}\text{C}$)	V_R	42	V
Capacity			2300	mAh
Specific power	(IEC 62391-2)		2.0	kW/kg
Specific power	(IEC 62391-2)		1.9	kW/l
Stored energy	($V = V_R$)	E	176400	J
Specific energy	($V = V_R$)		2.5	Wh/kg
Specific energy	($V = V_R$)		2.4	Wh/l
Surge voltage		V_{surge}	48	V
Maximum series resistance	($T_A = 25\text{ }^{\circ}\text{C}$; 1 kHz)	ESR	3.0	mΩ
Maximum series resistance	($T_A = 25\text{ }^{\circ}\text{C}$; 50 mHz)	ESR _{DC}	5.4	mΩ
Weight			20.0	kg
Volume			21.0	l
Operating temperature range		T_{op}	-30/+70	°C
Storage temperature		T_{st}	-40/+70	°C
Lifetime (hours) ²⁾	($V = 0\text{ V}$)		90000	h
Lifetime (cycles) ³⁾	($T_A = 25\text{ }^{\circ}\text{C}$; $I = 100\text{ A}$)		500000	cycles

1) DCC: discharging with constant current.

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

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