

UltraCap[®]

Module 200 F/ 42 V

Series/Type:

Ordering code: B48621A7205Q018

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UltraCap[®] B48621A7205Q018

Module, 200 F/ 42 V

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

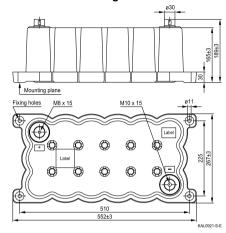
Options

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 °C; DCC) 1)	C _R	200	F
Tolerance of C _R			-10/+30	%
Rated voltage	(T _A = 25 °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/I
Surge voltage		V_{surge}	48	V
Maximum series resistance	$(T_A = 25 ^{\circ}C; 1 \text{kHz})$	ESR	3.0	$m\Omega$
Maximum series resistance	$(T_A = 25 ^{\circ}C; 50 \text{mHz})$	ESR _{DC}	5.4	$m\Omega$
Weight			20.0	kg
Volume			21.0	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).