



UltraCap[®]

Module
600 F/ 14 V

Series/Type:

Ordering code: B48621A4605Q006

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Features

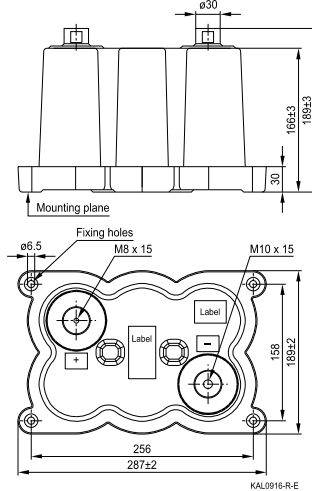
- Screw terminal M8 × 15 (plus), M10 × 15 (minus)
- Active cell voltage balancing
- Case material polyethylene, black
- Power type
- 6 serial single cells of 3600 F
- Maintenance-free
- Short-circuit-proof
- Low ESR due to laser-welded interconnections

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	$(T_A = 25\text{ °C}; \text{DCC})^1$	C_R	600	F
Tolerance of C_R			-10/+30	%
Rated voltage	$(T_A = 25\text{ °C})$	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	$(V = V_R)$	E	58800	J
Specific energy	$(V = V_R)$		2.3	Wh/kg
Specific energy	$(V = V_R)$		2.2	Wh/l
Surge voltage		V_{surge}	16	V
Maximum series resistance	$(T_A = 25\text{ °C}; 1\text{ kHz})$	ESR	1.0	mΩ
Maximum series resistance	$(T_A = 25\text{ °C}; 50\text{ mHz})$	ESR _{DC}	1.8	mΩ
Weight			7.0	kg
Volume			7.4	l
Operating temperature range		T_{op}	-30/+70	°C
Storage temperature	$(V = 0\text{ V})$	T_{st}	-40/+70	°C
Lifetime (hours) ²⁾	$(T_A = 25\text{ °C}; V = V_R)$		90000	h
Lifetime (cycles) ³⁾	$(T_A = 25\text{ °C}; I = 100\text{ A})$		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).