



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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UltraCap[®]

Module
600 F/ 14 V

Series/Type:

Ordering code: B48621A4605Q006

Date: March 2005

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Features

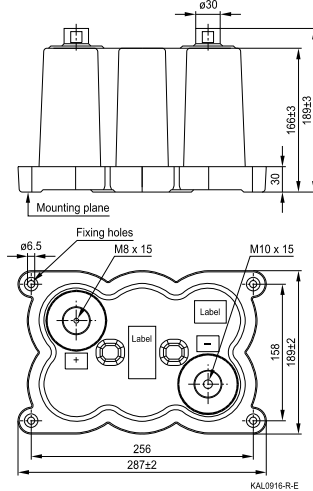
- Screw terminal M8 × 15 (plus), M10 × 15 (minus)
- Active cell voltage balancing
- Case material polyethylene, black
- Power type
- 6 serial single cells of 3600 F
- Maintenance-free
- Short-circuit-proof
- Low ESR due to laser-welded interconnections

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 | ($T_A = 25\text{ °C}$; 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 kHz) | ESR | 1.0 | mΩ |
| Maximum series resistance | ($T_A = 25\text{ °C}$; 50 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).