

# **UltraCap**<sup>®</sup>

Module 100 F/ 42 V

Series/Type:

Ordering code: B48621A7105Q018

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#### Module, 100 F/ 42 V

#### **Features**

- Screw terminal M8 x 15 (plus), M10 x 15 (minus)
- Active cell voltage balancing
- Case material polyethylene, black
- Power type
- 18 serial single cells of 1800 F
- Maintenance-free
- Short-circuit-proof
- Low ESR due to laser-welded interconnections

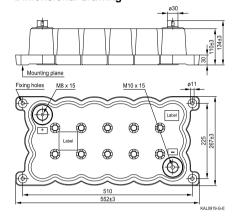
## **Options**

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**

(T <sub>A</sub> = 25 °C; DCC) 1)	C <sub>R</sub>	100	F
		-10/+30	%
(T <sub>A</sub> = 25 °C)	$V_R$	42	V
		1200	mAh
(IEC 62391-2)		1.5	kW/kg
(IEC 62391-2)		1.4	kW/l
$(V = V_R)$	E	88200	J
$(V = V_R)$		1.9	Wh/kg
$(V = V_R)$		1.8	Wh/I
	$V_{\text{surge}}$	48	V
$(T_A = 25  ^{\circ}C;  1  \text{kHz})$	ESR	6.0	mΩ
$(T_A = 25  ^{\circ}C; 50  \text{mHz})$	ESR <sub>DC</sub>	11.0	$m\Omega$
		13.0	kg
		14.0	1
	T <sub>op</sub>	-30/+70	°C
(V = 0 V)	T <sub>st</sub>	-40/+70	°C
$(T_A = 25  {}^{\circ}C;  V = V_R)$		90000	h
$(T_A = 25  ^{\circ}C; I = 75  A)$		500000	cycles
	$(T_A = 25  ^{\circ}C)$ (IEC  62391-2) $(V = V_B)$ $(V = V_B)$ $(V = V_B)$ $(V = V_B)$ $(T_A = 25  ^{\circ}C;  1  \text{kHz})$ $(T_A = 25  ^{\circ}C;  50  \text{mHz})$ (V = 0  V) $(T_A = 25  ^{\circ}C;  V = V_B)$	$(T_{A} = 25  ^{\circ}C) \qquad V_{R}$ $(IEC  62391-2) \qquad (IEC  62391-2) \qquad (V = V_{R}) \qquad E$ $(V = V_{R}) \qquad V_{surge}$ $(V = V_{R}) \qquad V_{surge}$ $(T_{A} = 25  ^{\circ}C;  1  \text{kHz}) \qquad ESR$ $(T_{A} = 25  ^{\circ}C;  50  \text{mHz}) \qquad T_{op}$ $(V = 0  V) \qquad T_{st}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

<sup>1)</sup> DCC: discharging with constant current.

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

<sup>3)</sup> Requirements:  $|\Delta C/C_R| \le 30\%$ , ESR  $\le 2$  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).