

Dc Capacitor

Nominal values

Rated capacitance	Cn	[μ F]	830
Tolerance		[%]	$\pm 5\%$
Rated voltage	Un	[Vdc]	1100
Ripple voltage	Ur	[Vac]	
Maximum current	I _{max}	[A _{rms}]	70
Maximum repetitive peak current	I _p	[kA]	6
Maximum surge current	I _s	[kA]	8.4
Tangent of the loss angle	tg δ_o	[$\times 10^{-4}$]	≤ 2 (1V, 100Hz, 20° C)
Rated energy	Wn	[Ws]	
Thermal resistance	R _{th}	[K/W]	3.5
ESR	R _s	[m Ω]	1.5 (1kHz, 1V _{rms} , 20°C)
Capacitor inductance	L _s	[nH]	45

Maximum rating

Non-recurrent peak voltage	U _s	[V _p]	1650
Recurrent surge voltage slop	(du/dt) _s	[V/ μ s]	10

Test values

between terminals	U _{t-t}	[Vdc]	1650 - 10s
between terminals and case	U _{t-c}	[V]	3200 - 50Hz - 60s

Climatic conditions

Operating temperature	θ_{amb}	[°C]	$\theta_{min} = -40^\circ\text{C} / \theta_{max} = +85^\circ\text{C}$ (hotspot)
Storage temperature	θ	[°C]	-55 / +85

Expected life time

Expected lifetime		[h]	$\geq 100,000$ (at $\theta_{hotspot} \leq 70^\circ\text{C}$)
Failure quota	λ	FIT	50

Mechanical values

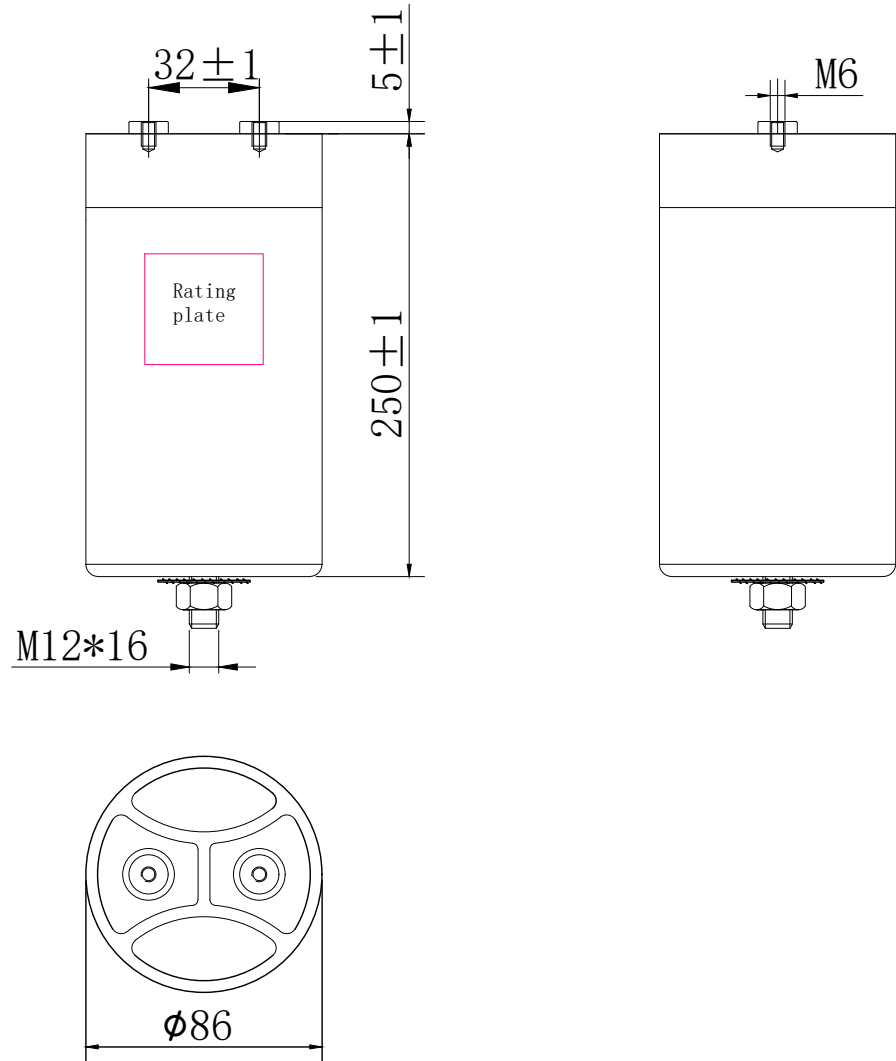
Weight		[kg]	1.8
material			Al

Terminals


Type			Copper
Screw bolt			2-M6 x 10
Tightening torque max.		[Nm]	M6=4Nm; M12=15Nm;
<u>Mounted</u>			vertical or horizontal or upside-down

Technology

Dielectric			metallised polypropylene self-healing
Impregnant			solidified PUR resin
Execution according to			IEC 61071



Unit: mm

	Signature	Date	DC Capacitor		 深圳市创仕鼎电子有限公司
Design			No.	Proportion	
Technics					
Approve			A	1	C43-1100VDC-830uFJ