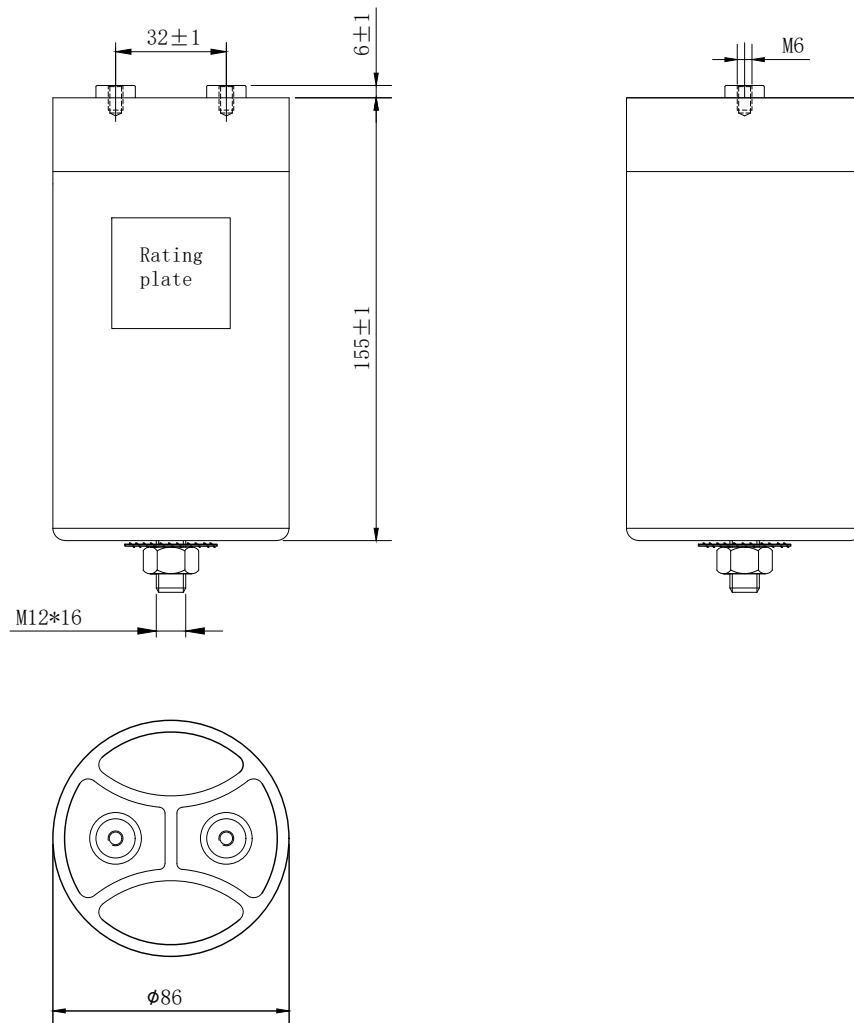



| Dc Capacitor | | | |
|---------------------------------|----------------------|----------------------|---|
| <u>Nominal values</u> | | | |
| Rated capacitance | Cn | [μ F] | 300 |
| Tolerance | To1 | [%] | $\pm 5\%$ |
| Rated voltage | Un | [Vdc] | 1300 |
| Ripple voltage | Ur | [Vac] | 300 |
| Maximum current | I _{max} | [A _{rms}] | 60 |
| Maximum repetitive peak current | I _p | [kA] | 4.8 |
| Maximum surge current | I _s | [kA] | 12 |
| Tangent of the loss angle | tg δ_o | [$\times 10^{-4}$] | ≤ 2 (1V, 100Hz, 20° C) |
| Thermal resistance | R _{th} | [K/W] | 3.7 |
| ESR | R _s | [m Ω] | 1.1 |
| Capacitor inductance | L _s | [nH] | 40 |
| <u>Maximum rating</u> | | | |
| Non-recurrent peak voltage | U _s | [V _p] | 1950 |
| Recurrent surge voltage slop | (du/dt) _s | [V/ μ s] | >15V/ μ s |
| <u>Test values</u> | | | |
| between terminals | U _{t-t} | [Vdc] | 1950 - 10s |
| between terminals and case | U _{t-c} | [V] | 4000 - 50Hz - 60s |
| <u>Climatic conditions</u> | | | |
| Operating temperature | θ_{amb} | [°C] | $\theta_{min} = -40^{\circ}\text{C} / \theta_{max} = +85^{\circ}\text{C}$ (hotspot) |
| Storage temperature | θ | [°C] | -55 / +85 |
| <u>Expected life time</u> | | | |
| Expected lifetime | | [h] | $\geq 100,000$ (at $\theta_{hotspot} \leq 70^{\circ}\text{C}$) |
| Failure quota | λ | FIT | 200 |
| <u>Mechanical values</u> | | | |
| Weight | | [kg] | 1.3 |
| material | | | Al |
| <u>Terminals</u> | | | |
| 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 |
| <u>Technology</u> | | | |
| Dielectric | | | metallised polypropylene self-healing |
| Impregnant | | | solidified epoxy resin |
| Execution according to | | | IEC 61071 |



Unit: mm

| | | | | | | |
|----------|-----------|------------|--------------------|-----|------------|---|
| | Signature | Date | C433075809J3E8EIBS | | |  深圳市创仕鼎电子有限公司 |
| Design | Yiqiu | 2023.06.16 | | | | |
| Technics | Yiqiu Fu | 2023.06.16 | Phase | No. | Proportion | C43-1300VDC-300uFJ |
| Approve | | | B | | 1 | |