



Features

- Used in DC-Link circuits as a replacement electrolytic capacitors
- Low ESR, High ripple current handling capabilities
- Self-healing.

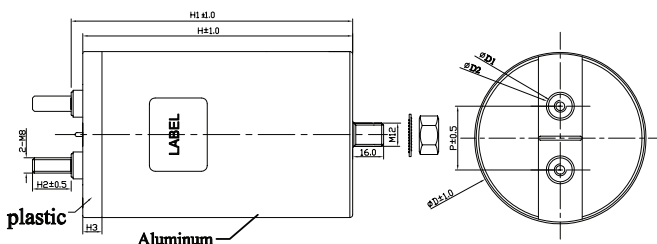
Application

- Used in wind and solar power inverters
- EV or HEV Transportation
- Welders, Elevators, Motors Driver systems

Specifications

Reference Standard	: GB/T17702 (IEC 61071)
Climatic Category	: 40/85/56
Operating Temperature Range	: -40°C to +85°C
Capacitance Range	: 420µF
Capacitance Tolerance	: ±5%(J)
Test Voltage Between Terminals	: 1.5Un (10s, 20°C ±5°C)
Test Voltage Between Terminals and Case	: 1500V DC, 3000V AC (10s, 50Hz, 20°C ±5°C)
Rated Voltage	: 1100V DC
IR x CN	: 5000s (20°C, 500V DC, 1 min)
Max. Altitude	: 2000m
Install Bolts/Torque on the Bottom	: Aluminium Bolts (M12≤10N.m)
Leads to Electrical Extremes	: 2-M6×20 Bolt
Rated Frequency	: 50/60Hz
Life Expectancy	: 100,000hours at Un and θ _{hs} ≤ +70°C
Failure Rate	: 50FIT
Dielectric Material	: Metallized Polypropylene Film

Diagram



Additional Remark of Dimensions

D = 86mm	P=32mm; D1 =12mm; D2=14mm; H3=10mm or 45mm
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Dimension		
ØD	H	H1
86	155	161

Dimensions : Millimetres

Un (V DC)	Cn (μ F)	ESR @1kHz (m Ω)	Ls (nH)	Rth (K/W)	\hat{I} (A)	Imax (A)		
						40°C	50°C	60°C
1100	420	1.7	40	4.4	3750	70	63	52

Part Number Table

Description	Part Number
DC-Link Film Capacitor, 420 μ F, 1100V DC, \pm 5%	MPDAT427K1K1VD86N6M

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