

DC-Link Film Capacitors

MPDAT Series

multicompPRO



Features

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

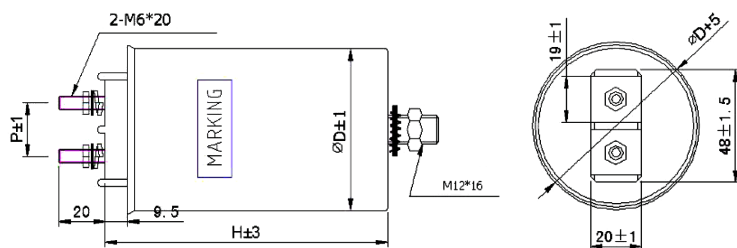
Application

- 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	: 40µF to 100µF
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 (Urms)	: 300V and 480V
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

Dimensions



Part Number	Cap µF	ΦD mm	H mm	P mm	I _{peak} KA	I _{max} A	ESR mΩ	ESL nH
UNAC 420V UNDC 700V Urms 300V								
MPDAT107J300VD76N6M	100	76	140	25	1.15	40	3	130
UNAC 680V UNDC 1120V Urms 480V								
MPDAT406J480VD76N6M	40	76	140	25	0.44	25	5.9	130
MPDAT706J480VD76N6M	70	76	140	25	0.8	25	5.6	130

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Part Number Table

Description	Part Number
DC-Link Film Capacitor, 100 μ F, 300V, $\pm$ 5%	MPDAT107J300VD76N6M
DC-Link Film Capacitor, 40 μ F, 480V, $\pm$ 5%	MPDAT406J480VD76N6M
DC-Link Film Capacitor, 70 μ F, 480V, $\pm$ 5%	MPDAT706J480VD76N6M

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