

CAPACITOR



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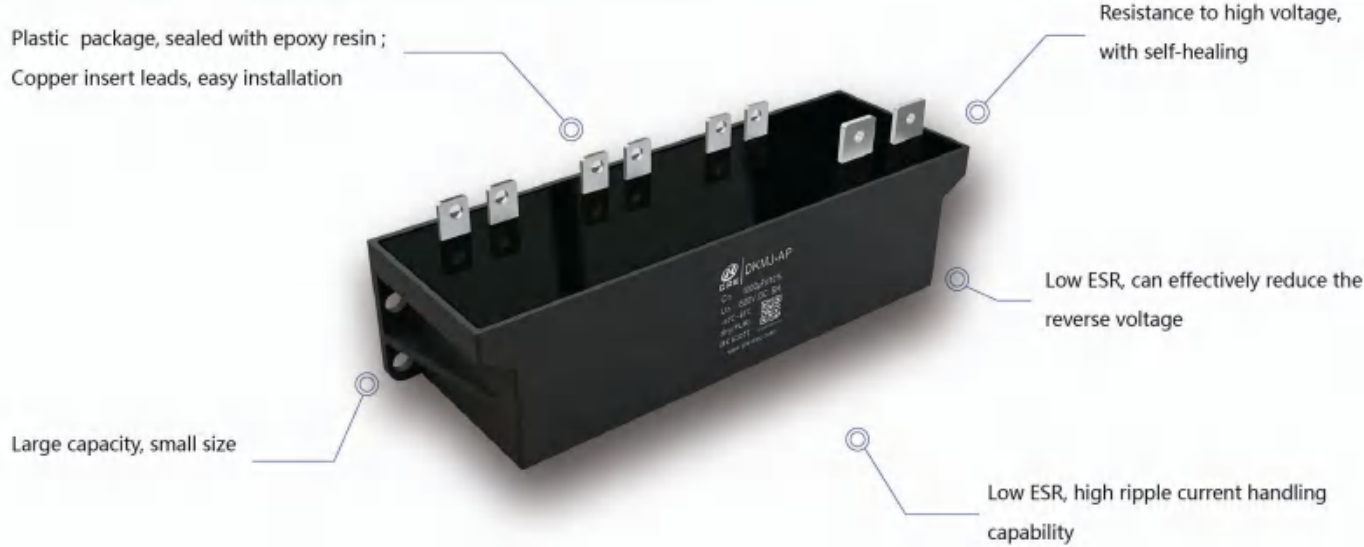
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DKMJ-AP
DC—Link

POWER LINKS SUCCESS

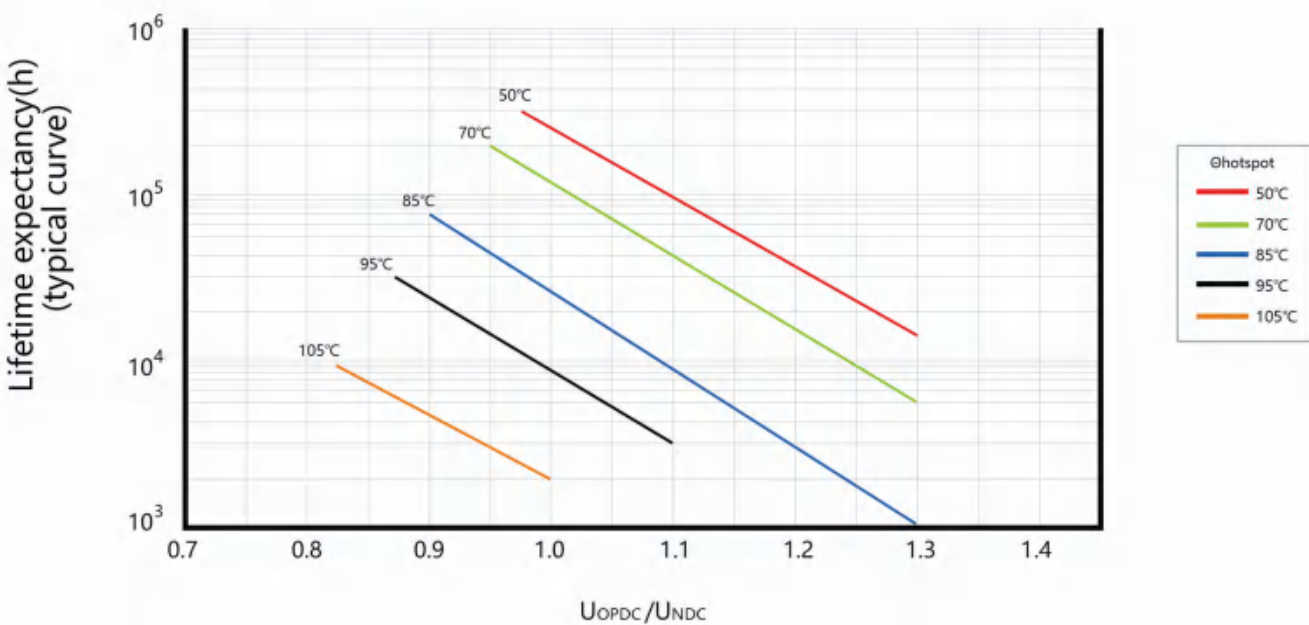
DC-Link DKMJ-AP series Metalized film capacitor



Application

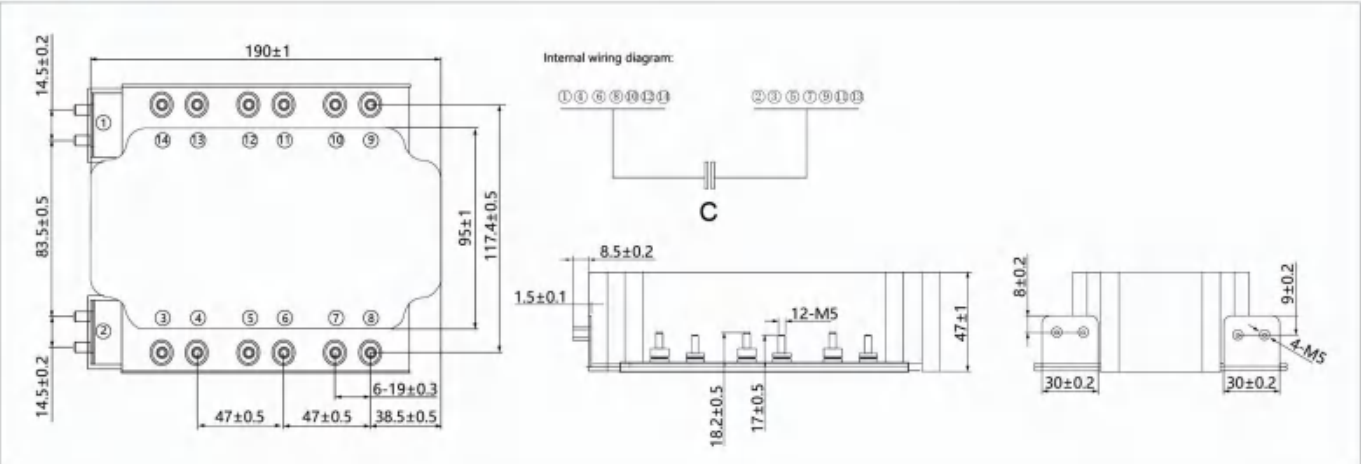
- Widely used in EV and HEV.

Life expectancy in the graph



01

Size chart



Technical data

DPS2061100*412***

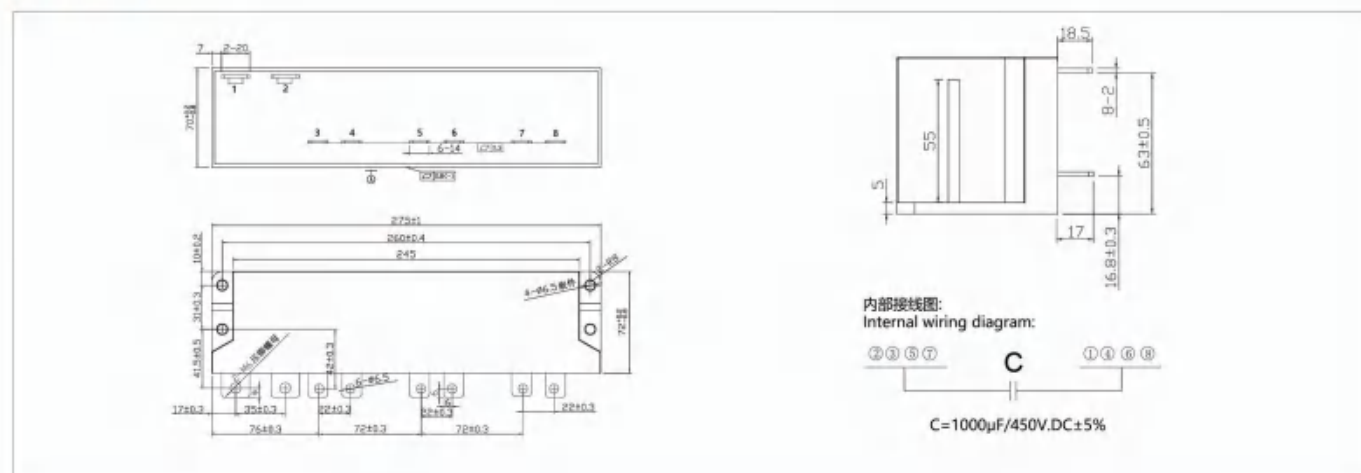
Operating temperature range	-40°C ~ 105°C	
Storage temperature range	-40°C ~ 105°C	
(U_N) / Rated voltage	750V.DC	
(C_N) / Rated capacitance	320μF	
Cap.tol	±10% (K)	
Withstand voltage	Vt - t	1.5 U_N / 10s (20°C ± 5°C)
	Vt - c	3000V.AC /10s (50Hz , 20°C±5°C)
Dissipation factor	$tg\delta \leq 0.001$ f = 100Hz	
	$tg\delta_0 \leq 0.0002$	
Insulation resistance	$R_s \times C \geq 10000S$ (at 20°C 100V.DC 60s)	
ESR	$\leq 0.6m\Omega$ (10kHz)	
Ls	$\leq 15nH$	
Rth	0.3K/W	
Max. current Irms	300A (70°C)	
Non-recurrent surge voltage(U_s)	1125V.DC	
Maximum peak current(I)	4.8kA	
Maximum surge current(I_s)	14.4kA	
Filling material	Resin or Polyurethane, dry	
Failure quota	≤ 50 fit	
Life expectancy	Reference life expectancy curve	
Reference standard	IEC 61071 ; AEC Q 200D-2010	
Weight	≈2.3kg	
Dimension	190mm×95mm×47mm	

02



DC-Link DKMJ-AP series Metalized film capacitor

Size chart



Technical data

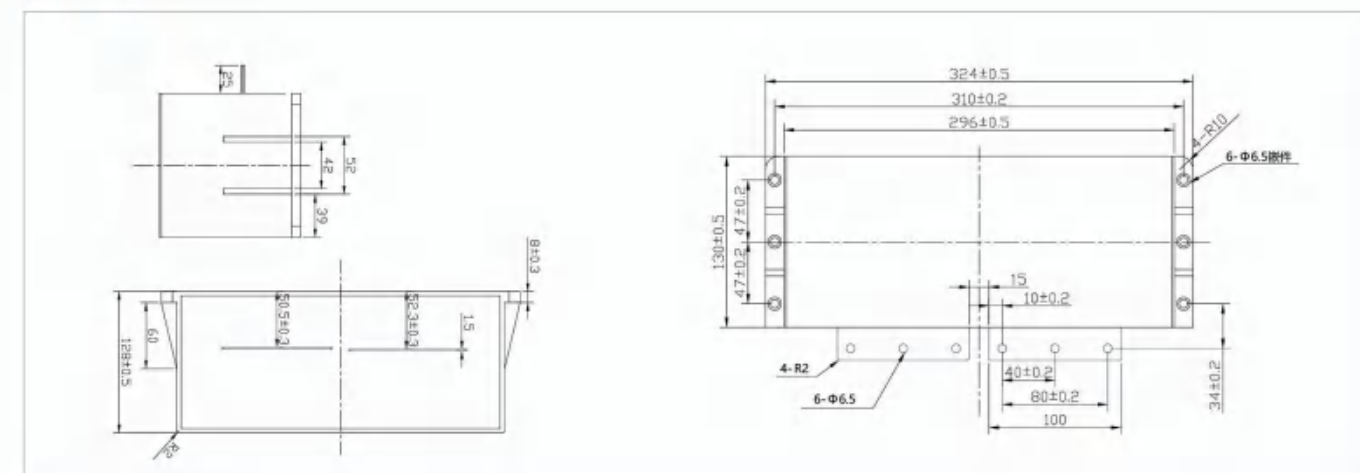
MKP61A0450D108J**

Operating temperature range	-40°C ~ 105°C	
Storage temperature range	-40°C ~ 105°C	
Rated voltage	450V.DC	
(C _N) / Rated capacitance	1000μF	
Cap.tol	±5% (J)	
Withstand voltage	Vt - t	1.5U _N / 10s (20°C±5°C)
	Vt - c	3000V.AC / 10s (50Hz , 20°C±5°C)
Dissipation factor	tgδ≤0.001 f = 100Hz	
	tgδ ₀ ≤0.0002	
Insulation resistance	R _s ×C≥ 10000s (at20°C 100V.DC 60s)	
ESR	≤0.3mΩ (10kHz)	
Ls	≤ 20nH	
Rth	1.8K/W	
Max. current Irms	140A (70°C)	
Non-recurrent surge voltage(Us)	675V.DC	
Maximum peak current(I)	5kA	
Maximum surge current(Is)	15kA	
Failure quota	<50fit	
Life expectancy	Reference life expectancy curve	
Reference standard	IEC61071 ; AEC Q200D - 2010	
Weight	≈ 2.3kg	
Dimension	275mm x 72mm x 70mm	



03

Size chart



Technical data

MKP61A0900D188K**

Operating temperature range	-40°C ~ 105°C	
Storage temperature range	-40°C ~ 105°C	
(U _N) / Rated voltage	900V.DC	
(C _N) / Rated capacitance	1800μF	
Cap.tol	±10% (K)	
Withstand voltage	V _t - t	1.5U _N / 10s (20°C±5°C)
	V _t - c	3000V.AC /10s (50Hz , 20°C±5°C)
Dissipation factor	tgδ≤ 0.001 f = 100Hz	
	tgδ ₀ ≤ 0.0002	
Insulation resistance	R _s ×C > 10000s (at20°C 100V.DC 60s)	
ESR	≤0.2mΩ (10kHz)	
L _s	≤20nH	
R _{th}	1.2K/W	
Max. current I _{rms}	160A (70°C)	
Non-recurrent surge voltage(Us)	1350V.DC	
Maximum peak current(I)	7.2kA	
Maximum surge current(I _s)	14.4kA	
Failure quota	≤50fit	
Life expectancy	Reference life expectancy curve	
Reference standard	IEC61071 ; AEC Q200D - 2010	
Weight	≈6.7kg	
Dimension	324mm x 130mm x 128mm	

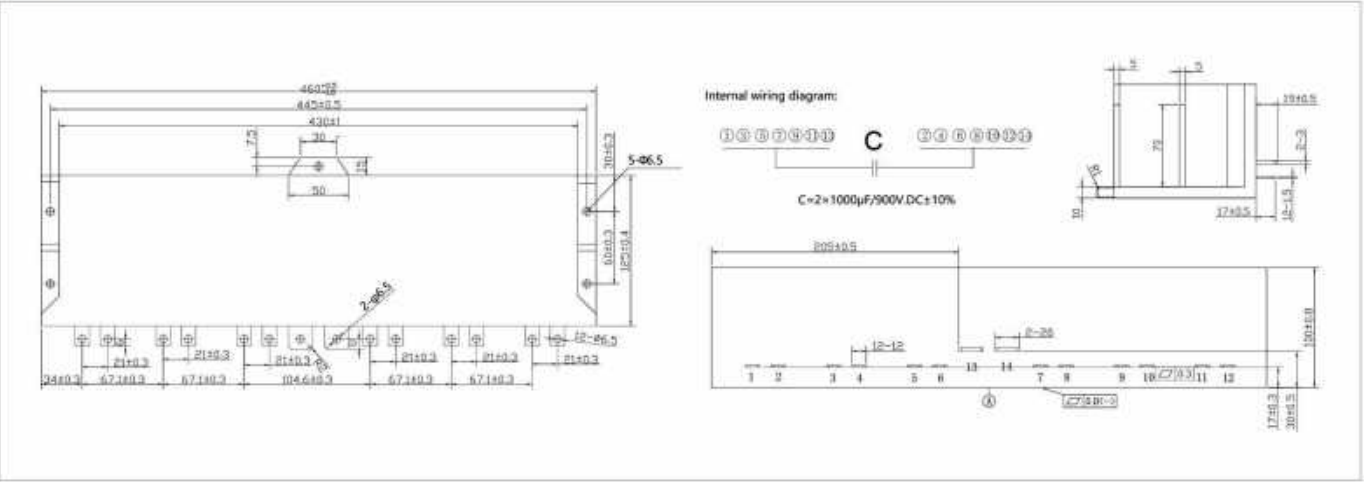


04

DC-Link DKMJ-AP series

Metalized film capacitor

Size chart



Technical data

MKP61A0900D188K**

Operating temperature range	-40°C ~ 105°C	
Storage temperature range	-40°C ~ 105°C	
(U _N) / Rated voltage	900V.DC	
(C _N) / Rated capacitance	2×1000µF	
Cap.tol	±10% (K)	
Withstand voltage	V _t - t	1.5U _N / 10s (20°C±5°C)
	V _t - c	3000V.AC / 10s (50Hz , 20°C±5°C)
Dissipation factor	tgδ≤0.001 f = 100Hz	
	tgδ ₀ ≤0.0002	
Insulation resistance	R _s ×C≥10000s (at20°C 100V.DC 60s)	
ESR	≤0.3mΩ (10kHz)	
L _s	≤25nH	
R _{th}	0.5K/W	
Max. current I _{rms}	200A (70°C)	
Non-recurrent surge voltage(U _s)	1350V.DC	
Maximum peak current(I _p)	10kA	
Maximum surge current(I _s)	20kA	
Failure quota	≤50fit	
Life expectancy	Reference life expectancy curve	
Reference standard	IEC61071 ; AEC Q200D-2010	
Weight	≈ 7.8kg	
Dimension	460mm x 125mm x 100mm	

