DC - Link 金属化薄膜电容器  DKMJ - S series

应用
- 广泛应用于DC - Link电路中，作滤波器应用。
- 能替代电容，性能更优，寿命更长。
- 光伏逆变器，风电变流器；各种变频器及逆变电源；纯电动车及混合动力汽车；SVG，SVC等各类电能质量管理设备。

Application
- Widely used in DC - Link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter, wind power converter: All kinds of frequency converter and inverter power supply: Pure electric and hybrid cars: SVG, SVC devices and other kinds of power quality management.

典型线路图  A typical circuit diagram
### 性能参数  Technical data

<table>
<thead>
<tr>
<th>参数</th>
<th>详细信息</th>
</tr>
</thead>
<tbody>
<tr>
<td>工作温度范围 / Operating temperature range</td>
<td>Max: Operating temperature, Top, max: + 70°C  &lt;br&gt;Upper category temperature: + 60°C  &lt;br&gt;Lower category temperature: - 40°C</td>
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<tr>
<td>容量范围 (μF) / Capacitance range</td>
<td>100μF ~ 2000μF</td>
</tr>
<tr>
<td>额定电压 (Un) / Rated voltage</td>
<td>600V DC ~ 4000V DC</td>
</tr>
<tr>
<td>容量偏差 / Cap. Tol</td>
<td>± 5% (J) ; ± 10% (K)</td>
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<tr>
<td>耐电压 / Withstand voltage</td>
<td>Vt - t : 1.5Un DC / 605  &lt;br&gt;VT + c : 1000 + 2 × Un / √2 (V, AC) 605 (min 3000V, AC)</td>
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<tr>
<td>过电压 / Over voltage</td>
<td>1.1Un (30% of on - load - dur.)   &lt;br&gt;1.15Un (30 min / day)   &lt;br&gt;1.2Un (5 min / day)   &lt;br&gt;1.3Un (1 min / day)   &lt;br&gt;1.5Un (100ms every time, 1000times during the lifetime)</td>
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<td>损耗角正切 / Dissipation factor</td>
<td>tanδ ≤ 0.003 f = 100Hz</td>
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<tr>
<td>绝缘电阻 / Insulation resistance</td>
<td>介电损耗 tanδ ≤ 0.0002  &lt;br&gt;（内置放电电容）(实测)</td>
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<td>耐液冲电流冲击 / Withstand strike current</td>
<td>具体见规格表</td>
</tr>
<tr>
<td>有效电流 / Imms</td>
<td>具体见规格表</td>
</tr>
<tr>
<td>杂散电感 / ESL</td>
<td>&lt; 150 nH</td>
</tr>
<tr>
<td>阻燃性 / Flame retardation</td>
<td>UL94V = 0</td>
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DC - Link 金属化薄膜电容器  DKMJ - S series

性能参数  Technical data

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<thead>
<tr>
<th>参数</th>
<th>数值</th>
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<tr>
<td>最高使用海拔高度 / Maximum altitude</td>
<td>2000m</td>
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<td>海拔高度2000m以上至5000m以内，需考虑电容使用，每增加1000m，电压及电流损失10%使用</td>
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<td>预期寿命 / Life expectancy</td>
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<td>(Un; @ambient50 °C)</td>
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<tr>
<td>引用标准 / Reference standard</td>
<td>IEC61071；IEC61881</td>
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外形图  The contour map

规格表  The contour map

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<tr>
<th>C (μF)</th>
<th>W (mm)</th>
<th>T (mm)</th>
<th>H (mm)</th>
<th>dv/dt (V/µs)</th>
<th>I (KA)</th>
<th>Imm @10KHz/50°C (A)</th>
<th>SSR @1KHz (mΩ)</th>
<th>Rth (K/W)</th>
<th>Weight (Kg)</th>
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<td>Un 800V DC</td>
<td>U1 1200V</td>
<td>U2 200V</td>
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### 规格表  Specification table

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<th>Cn (μF)</th>
<th>W (mm)</th>
<th>T (mm)</th>
<th>H (mm)</th>
<th>dv/dt (V/μs)</th>
<th>Ip (KA)</th>
<th>Imss @100kHz+50°C (A)</th>
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可依客户实际需求定制产品。
## DC-Link 金属化薄膜电容器 (定制品) DKMJ-S series

### 规格表

<table>
<thead>
<tr>
<th>参数</th>
<th>详细信息</th>
</tr>
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<tbody>
<tr>
<td>工作温度范围 / Operating temperature range</td>
<td>-40°C ~ 85°C</td>
</tr>
<tr>
<td>存储温度范围 / Storage temperature range</td>
<td>-40°C ~ 85°C</td>
</tr>
<tr>
<td>额定电压 (Vn) / Rated voltage</td>
<td>2600V.DC</td>
</tr>
<tr>
<td>额定容量 (Cn) / Rated capacitance</td>
<td>2 × 1100μF</td>
</tr>
<tr>
<td>容量偏差 / Cap.tol</td>
<td>±5% (J)</td>
</tr>
<tr>
<td>耐压电压 / Withstand voltage</td>
<td>Vt - t 1.5Un / 10S (20°C ± 5°C) Vt - c 6000V.AC / 10S (50Hz, 20°C ± 5°C)</td>
</tr>
<tr>
<td>损耗因数 / Dissipation factor</td>
<td>tgδ ≤ 0.003 f = 100Hz</td>
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<tr>
<td>绝缘电阻 / Insulation resistance</td>
<td>Rs × C ≥ 10000Ω (at 20°C 100V.DC 60s)</td>
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<tr>
<td>等效串联电阻 / ESR</td>
<td>0.6mΩ (1kHz)</td>
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<td>自感 / Ls</td>
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<td>热阻 / Rθ</td>
<td>0.8K/W</td>
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<td>额定电流 / Max. current (Ims)</td>
<td>2 x 300A (50°C)</td>
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<td>冲击电压 / Non-recurrent surge voltage (Us)</td>
<td>3900V.DC</td>
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<td>冲击峰值电流 / Maximum peak current (Ip)</td>
<td>2 x 11KA</td>
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<td>冲击电流 / Maximum surge current (Is)</td>
<td>2 x 33KA</td>
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<tr>
<td>失效率 / Failure quota</td>
<td>≤ 100Fit</td>
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<tr>
<td>期限寿命 / Life expectancy</td>
<td>≥ 100000h (Un; θ hotspot ≤ 70°C)</td>
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<td>引用标准 / Reference standard</td>
<td>IEC61071; IEC61881</td>
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<td>重量 / Weight</td>
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<td>尺寸 / Dimension</td>
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<td>贮存温度范围 / Storage temperature range</td>
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<td>额定容量 (Cn) / Rated capacitance</td>
<td>2 x 1200μF</td>
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<td>容量偏差 / Cap.tol</td>
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</tr>
<tr>
<td>Vt-c 6000V, AC / 10s (50Hz, 20℃ ± 5℃)</td>
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<td>损耗角正切 / Dissipation factor</td>
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<tr>
<td>热阻 / Rth</td>
<td>0.7K/W</td>
</tr>
<tr>
<td>额定电流 / Max. current (Irms)</td>
<td>2 x 300A (50℃)</td>
</tr>
<tr>
<td>交流电压 / Non-recurrent surge voltage (Us)</td>
<td>4800V, DC</td>
</tr>
<tr>
<td>峰值电流（1）</td>
<td>2 x 12KA</td>
</tr>
<tr>
<td>峰值电流（2）</td>
<td>2 x 24KA</td>
</tr>
<tr>
<td>失效率 / Failure quota</td>
<td>≤ 100fit</td>
</tr>
<tr>
<td>预期寿命 / Life expectancy</td>
<td>≥ 100000h (Un；Thotspat ≤ 70℃)</td>
</tr>
<tr>
<td>引用标准 / Reference standard</td>
<td>IEC61071；IEC61881</td>
</tr>
<tr>
<td>重量 / Weight</td>
<td>n = 95kg</td>
</tr>
<tr>
<td>尺寸 / Dimension</td>
<td>340mm × 175mm × 950mm</td>
</tr>
</tbody>
</table>

DC-Link金属化薄膜电容器 (定制品) DKMJ - S series