

干式直流滤波电容器

Dry Type DC-filter Capacitor

YHA

特点与用途

- ◆ 采用耐高温聚丙烯薄膜介质，加厚型金属化电极，无感卷绕结构；
- ◆ 铝壳，导热性树脂灌封；
- ◆ 等效串联电阻小，能承受较大的纹波电流；
- ◆ 能承受高的峰值电流；
- ◆ 自感小，寿命长；
- ◆ 应用于直流滤波电路中，作滤波储能用，完全可替代电解。
- ◆ 风能发电，太阳能发电用变频器上；
- ◆ 高压变频，SVC，SVG等。

Features & Applications

- ◆ High-temperature resistant PP film as dielectric, thickening metallized electrodes, no inductance winding structure.
- ◆ Aluminum housing, potted with thermally conductive resin.
- ◆ Low equivalent series resistance and able to withstand high ripple current.
- ◆ Able to withstand impacting of high-peak current.
- ◆ Low self-inductance, long service life.
- ◆ Applicable to DC filter circuits used as filtering or energy storage and ideal to instead of electrolytic capacitor.
- ◆ Frequency converters of wind power and solar power.
- ◆ High voltage frequency converters, SVC, SVG, etc.



认证 Certification



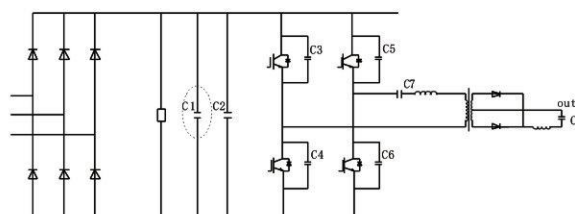
德国
Germany

IEC 61071:2007

技术参数 Technical Parameter

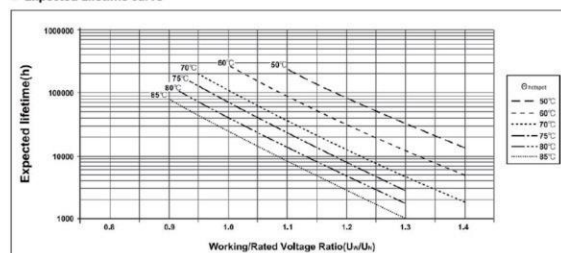
引用标准 Norms reference	IEC 61071, GB/T 17702
气候类别 Climatic category	40/75/56, 40/80/56, 40/85/56
工作温度 Working temperature	-40°C~75/80/85°C $\phi 76\sim 96$ [$\Theta_{\max}(\text{hotspot}) \leq +85^\circ\text{C}$] $\phi 116$ [$\Theta_{\max}(\text{hotspot}) \leq +80^\circ\text{C}$] $\phi 136$ [$\Theta_{\max}(\text{hotspot}) \leq +75^\circ\text{C}$]
存储温度 Storage temperature	-40°C ~ +85°C
额定电压 Rated voltage	600Vdc~2000Vdc
电容量范围 Range of capacitance	90 μF ~5600 μF
电容量允许偏差 Allowable capacitance deviation	$\pm 5\%(\text{J}), \pm 10\%(\text{K})$
极间测试电压 Voltage test between terminals	$1.5U_N$ (10s, 25°C $\pm 5^\circ\text{C}$)
极壳测试电压 Voltage test between terminals and case	$2U_N$ +1kVac or 3kVac take the higher one, (60s, 50Hz, 25°C $\pm 5^\circ\text{C}$)
介质损耗角正切 Dielectric dissipation factor	2×10^{-4}
过电压 Over-voltage	$1.1U_N$ (30% of on-load-dur) $1.15U_N$ (30min/day) $1.2U_N$ (5min/day) $1.3U_N$ (1min/day) $1.5U_N$ (30ms every time, 1000times)
失效率 Loss of efficiency	100 FIT
最大电极扭矩 Maximum terminal torque	6Nm
最大安装扭矩 Maximum installation torque	10Nm

典型线路 Typical circuit



预期寿命参考曲线 Life expectancy reference curve

Expected Lifetime curve



YHA常用规格
YHA Common Specification

● YHA 圆形干式直流滤波电容器

YHA Dry Type DC-filter capacitor (Round)

C_N (μF)	ESR ($m\Omega$)	R_{th} ($^{\circ}C/W$)	$I_{max.}$ (A)	I_p (kA)	I_s (kA)	L_s (nH)	ΦD (mm)	H (mm)	Weight (kg)	Part Number
YHA 600, $U_N=600Vdc$, $U_s=900Vdc$, $U_r=175V$										
880	1.3	4.7	70	2.9	8.7	45	96	95	1.2	YHA601880J**
2000	1.1	4.9	80	3.96	11.88	55	116	140	1.75	YHA6012007J*2
5600	0.8	2	100	15.94	47.82	60	136	295	4.9	YHA6015607J**
YHA 700, $U_N=700Vdc$, $U_s=1050Vdc$, $U_r=200V$										
400	2.2	4.7	60	3.2	6.4	60	76	120	0.7	YHA7014006J**
650	1.5	4.4	65	5.85	11.7	50	86	155	1.25	YHA7016506J**
1800	0.8	2.7	100	14.4	28.8	50	116	230	2.9	YHA7011807J**
YHA 800, $U_N=800Vdc$, $U_s=1200Vdc$, $U_r=200V$										
209	1.7	5.6	69	1.53	4.59	45	76	95	0.6	YHA8012096J**
680	1.6	4.1	70	2.7	8.1	50	96	120	1.47	YHA8016806J**
980	1.1	3.2	70	5.23	15.69	45	96	174	2.28	YHA8019806J**
1800	0.8	2.7	100	10.91	32.73	50	116	230	2.8	YHA8011807J**
YHA 900, $U_N=900Vdc$, $U_s=1350Vdc$, $U_r=225V$										
420	2	4.2	65	3.78	7.55	55	76	175	1	YHA9014206J**
750	1.2	3.4	70	3.24	9.72	55	86	175	1.24	YHA9017506J00*
1200	1.4	4.9	80	3.86	11.58	55	116	140	1.75	YHA9011207J*1
1200	0.9	3.6	100	7.28	21.84	40	116	158	2	YHA9011207J*2
1800	0.8	2.7	100	10.91	32.73	50	116	230	2.8	YHA9011807J**
YHA 1000, $U_N=1000Vdc$, $U_s=1500Vdc$, $U_r=250V$										
360	1.9	4.3	70	2.74	8.22	40	76	155	0.9	YHA1023606J*2
900	1.3	3	70	5.96	17.88	55	86	252	1.8	YHA1029006J*1
1400	0.9	2.7	100	10.28	30.84	50	116	230	2.8	YHA1021407J**
2500	0.9	2	100	14.47	43.41	60	136	295	4.9	YHA1022507J**
YHA 1100, $U_N=1100Vdc$, $U_s=1650Vdc$, $U_r=250V$										
420	2	4.5	60	4.2	8.4	65	86	135	1.1	YHA1124206J*1
420	1.6	4.4	75	4.7	9.4	50	86	155	1.25	YHA1124206J*2
600	1.5	4.0	63	3.78	11.34	60	96	155	1.37	YHA1126006J00*
750	1.6	4.9	75	6	12	65	116	140	1.75	YHA1127506J**
1200	0.9	2.7	100	10.8	21.6	50	116	230	2.9	YHA1121207J**
YHA 1200, $U_N=1200Vdc$, $U_s=1800Vdc$, $U_r=300V$										
350	3	4	40	3	9	60	86	115	1	YHA1223506J**
500	2	4	60	5	15	60	86	180	1.4	YHA1225006J**
600	1.4	4.2	75	6	18	60	86	225	1.65	YHA1226006J*1
820	1.2	3.5	72	2.16	6.48	40	116	155	1.96	YHA1228206J00*
1700	1.5	4.5	90	10.2	30.6	60	136	260	4.9	YHA1221707J**
YHA 1300, $U_N=1300Vdc$, $U_s=1950Vdc$, $U_r=300V$										
210	2.1	4.3	70	2.64	7.92	40	76	155	0.9	YHA1322106J*2
520	1.5	3	70	5.67	17.01	55	86	252	1.8	YHA1325206J*1
430	1.6	5	75	3.44	10.32	50	116	120	1.5	YHA1324306J**
YHA 1300, $U_N=1300Vdc$, $U_s=1950Vdc$, $U_r=300V$										
540	1	3.6	100	6.77	20.31	40	116	158	2	YHA1325406J**
820	0.9	2.7	100	10.1	30.3	50	116	230	2.8	YHA1328206J**
1500	1	2	100	14.08	42.24	60	136	295	4.9	YHA1321507J**
YHA 1400, $U_N=1400Vdc$, $U_s=2100Vdc$, $U_r=330V$										
170	4.6	4.6	46	1.29	3.87	55	76	140	0.75	YHA1421706J*1
240	1.9	4.4	70	3.47	10.41	40	86	155	1.25	YHA1422406J**
540	1.3	3.4	89	6.69	20.07	45	116	174	2.2	YHA1425406J**
YHA 1500, $U_N=1500Vdc$, $U_s=2250Vdc$, $U_r=350V$										
90	3.3	5.6	49	1.44	2.88	55	76	95	0.6	YHA1529005J**
200	3	4.6	57	2.6	5.2	65	86	135	1.1	YHA1522006J**
210	2	4.4	65	2.73	5.46	50	86	155	1.25	YHA1522106J**
YHA 1500, $U_N=1500Vdc$, $U_s=2250Vdc$, $U_r=350V$										
240	2.1	4.3	65	3.6	7.2	55	86	175	1.3	YHA1522406J**
470	1.3	3.4	89	5.64	11.28	60	116	175	2.2	YHA1524706J**
600	1	2.7	100	7.8	15.6	50	116	230	2.9	YHA1526006J**

*表中列尺寸为公司常用规格尺寸，其他规格尺寸均可按照客户要求生产

*The listed dimension on the above chart is our common specifications, we can produce as customer's requests.