HGN 系列 Series

特点 Features

- 耐高纹波，更长寿命，85℃ 10000小时，可用于大功率电源、UPS不间断电源、变频器等电路中。
  High ripple current, Super long life, Load life of 10000 hours at 85℃,
  Used large power source, Uninterruptible power supplies,
  Frequency converter circuit .etc.
- RoHS指令已对应完毕。Adapted to the RoHS directive.

主要技术性能 Specifications

项目 Items	特性 Performance Characteristics
使用温度范围 Operating Temperature Range	-25~+85℃
额定电压范围 Rated Voltage Range	400~450V
标称电容量允许偏差 Nominal Capacitance Tolerance	±20%(+20℃，120Hz)
漏电流 Leakage Current	I ≤0.01CV(μA)或5mA 5分钟 取较小值(at 20℃, after 5 minutes, Whichever is smaller)
损耗角正切值(tgδ) Dissipation Factor(+20℃，120Hz)	≤0.15
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	Rated Voltage (V) 400~450 Z-25℃/Z+20℃ 8
高温贮存 Shelf Life	+85℃，1000小时贮存后，加额定工作电压处理30分钟，恢复16小时后: after storage for 1000 hours at +85℃ , U_R to be applied for 30 minutes and then resumed for 16 hours: 电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current : ≤初始规定值 ≤Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2times of the initial specified value

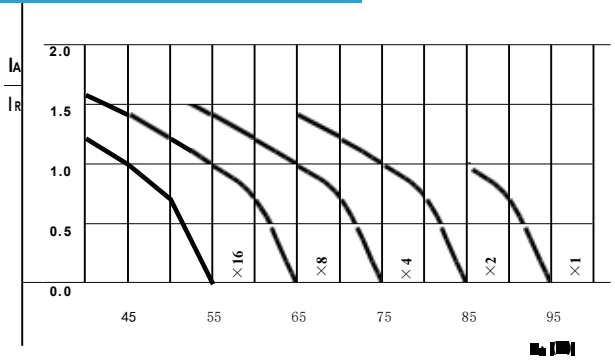
	使用寿命(Useful Life)		负载寿命(Load Life)	耐久性测试(Endurance Test)
寿命时间(Lifetime)	15000h	>150000h	10000h	10000h
漏电流(Leakage Current)	≤初始规定值 Not more than specified value		≤初始规定值 Not more than specified value	≤初始规定值 Not more than specified value
电容量变化率(Caacitance Change)	±30%初始测量值内 Within ±30% initial value		±25%初始测量值内 Within ±25% initial value	±10%初始测量值内 Within ±10% initial value
损耗角正切值(Dissipation Factor)	≤3倍初始规定值 Not more than 300% of specified value		≤2.5倍初始规定值 Not more than 250% of specified value	≤1.3倍初始规定值 Not more than 130% of specified value
应用条件(Condition) 应用电压(Applied Voltage) 应用电流(Applied Current) 应用温度(Applied Temperature) 失效率(Outlier Percetage)	U_R I_R 85℃ ≤1%	U_R 1.4×I_R 40℃ ≤1%	U_R I_R 85℃ 0%	U_R I_R=0 85℃ IEC60384

纹波电流的相关参数 Multiplier for Ripple Current

频率系数 Frequency Coefficient

Frequency (Hz) / Rated Voltage (V)	50	100 (120)	300	1k	≥10K
400~450	0.70	1.00	1.10	1.30	1.40

寿命时间图 Life Time Graph



此图表示电容的使用寿命时间
The graphs shows a typical trend of the standard capacitor useful life.

尺寸 Dimensions

Rated Voltage	Surge Voltage	Rated Capacitance	Dissipation Factor MAX	Max ESR 20℃，120Hz	Typ ESR 20℃，120Hz	Max Ripple Current 85℃,120Hz	SIZE
(V.D.C)	(V.D.C)	(μF)	-	(mΩ)	(mΩ)	(Arms)	D×L(mm)
400	450	1500	0.15	141	75.2	6.8	51×115
		2200	0.15	96.5	51.3	8.3	51×115
		3300	0.15	64.3	34.2	11.0	63.5×115
		3900	0.15	54.4	28.9	12.4	63.5×130
		4700	0.15	45.2	24.0	14.4	76×115
		5600	0.15	37.9	20.1	16.3	76×130
		6800	0.15	31.2	16.6	18.9	76×155
		8200	0.15	25.9	13.8	21.5	76×170
		10000	0.15	21.2	11.3	25.2	89×155
		12000	0.15	16.5	9.5	29.1	89×195
		15000	0.15	13.5	7.3	35.0	89×195
450	500	1500	0.15	159	79.6	6.5	51×115
		2200	0.15	108	54.3	8.8	63.5×95
		3300	0.15	72.4	36.2	11.5	63.5×130
		3900	0.15	61.2	30.6	13.1	76×115
		4700	0.15	50.8	25.4	14.8	76×130
		5600	0.15	42.7	21.3	16.8	76×155
		6800	0.15	35.1	17.6	20.1	76×170
		8200	0.15	29.1	14.6	23.1	89×155
		10000	0.15	23.5	11.8	26.8	89×195
		12000	0.15	16.5	9.4	31.5	89×235