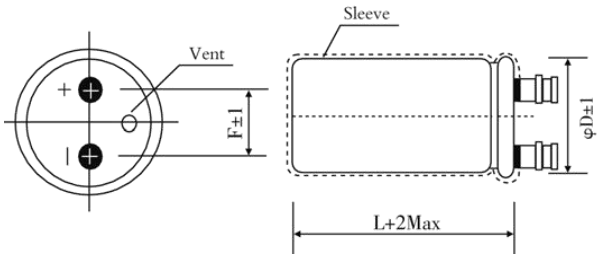
Features

◎ 2000h at +85℃，螺栓型，Screw Terminal Type
◎ 宽电压，大容量，低损耗。Wide Voltage, Large capacitance, Low Loss
◎ 适用于 UPS 不间断电源，空调逆变器等。Used in UPS and air conditioners etc.

Specifications

Item	Characteristics	
使用温度范围 Operating Temperature Range(℃)	-40 ~ +85	-25 ~ +85
额定电压 Rated Voltage (V)	10 ~ 250	350 ~ 500
标称容量 Nominal capacitance (μF)	1,000 ~ 2,500,000	
容量偏差 Capacitance Tolerance(20℃,120Hz)	±20%	
漏电流 Leakage current (μA)	I≤0.01CV or 5mA, which is smaller. (at 20℃ ,after 5 minutes)	
损耗角正切值 Dissipation Factor(20℃,120Hz)	Less than values shown in the standard ratings	
耐久性 Load Life(+85℃)	时间 time	2000 小时 2000 hours
	容量变化率 Capacitance change	±20%初始测量值以内 Within±20% of the initial value
	漏电流 Leakage current	≤初始规定值 Not more than the Initial specified value
	损耗角正切值 Dissipation factor	≤200%初始规定值 Not more than 200% of the Initial specified value
高温贮存 Shelf Life(+85℃)	时间 time	500 小时 500 hours
	容量变化率 Capacitance change	±20%初始测量值以内 Within±20% of the initial value
	漏电流 Leakage current	≤初始规定值 Not more than the Initial specified value
	损耗角正切值 Dissipation factor	≤200%初始规定值 Not more than 200% of the Initial specified value
	试验后：施加标称电压 30 分钟，于 24 至 48 小时之间测试。 After test: UR to be applied for 30 minutes, 24 to 48 hours before measurement.	

Dimensions



D	36	51	65	77	90	101
F	12.7	22	28.2	31.4	31.4	41.5

Frequency Coefficient

Frequency(Hz) / Voltage	50,60	120	300	1k	≥10k
10 ~ 50	0.95	1.00	1.04	1.10	1.15
63 ~ 100	0.90	1.00	1.06	1.16	1.30
160 ~ 500	0.80	1.00	1.10	1.25	1.50

Temperature Coefficient

Temperature(℃)	40	60	70	85
Coefficient	2.70	2.00	1.70	1.00

Standard Ratings

WV (SV)	Cap.	tanδ	Typ ESR	Ripple Current	Size φDxL
		20℃ 120Hz		85℃ 120Hz	
V	μF	-	mΩ	Arms	mm
10(13)	100000	1.50	9	8.9	51x80
	220000	1.50	8	11.5	51x120
	330000	1.50	7	15.6	65x100
	470000	1.50	6	16.8	65x120
	560000	2.00	5	19.2	77x120
	820000	2.00	4	24.5	77x145
	1000000	2.00	4	26.8	90x155
16(20)	100000	1.00	9	9.6	51x80
	220000	1.50	8	15.5	51x120
	330000	2.00	6	16.5	65x100
	470000	2.00	6	21.5	65x120
	560000	2.00	5	23.8	77x145
	820000	2.00	5	26.7	77x185
	1000000	2.00	4	28.5	77x185
	2000000	2.00	4	30.6	90x235
	2500000	2.00	3	32.3	101x250
25(30)	82000	0.60	5	10.4	36x80
	100000	0.80	4	10.3	51x80
	120000	0.80	4	11.7	51x100
	150000	0.80	3	14.1	51x120
	220000	1.00	3	16.1	65x120
	330000	1.00	2	21.9	77x120
	470000	1.20	2	25.6	77x145
35(44)	33000	0.40	9	7.2	36x70
	47000	0.50	8	8.7	36x80
	68000	0.60	6	9.8	51x80
	82000	0.60	5	11.6	51x80
	100000	0.60	4	13.3	51x80
	150000	0.80	4	14.9	65x100
	220000	0.80	3	20	77x120
	330000	1.00	2	23.5	77x145
	470000	1.00	2	29.6	77x145
	680000	1	1.7	31	101x250
50(63)	10000	0.30	26	4	36x50
	12000	.3	20	4.8	36x70
	15000	0.30	15	5.5	36x80
	18000	.35	13	6	51x80
	22000	0.40	11	6.3	51x80
	27000	.4	10	7	51x80
	33000	0.40	9	8.2	51x80
	47000	0.50	8	9.3	51x100
	68000	0.50	5	12	51x120
	100000	0.60	4	14.7	65x120

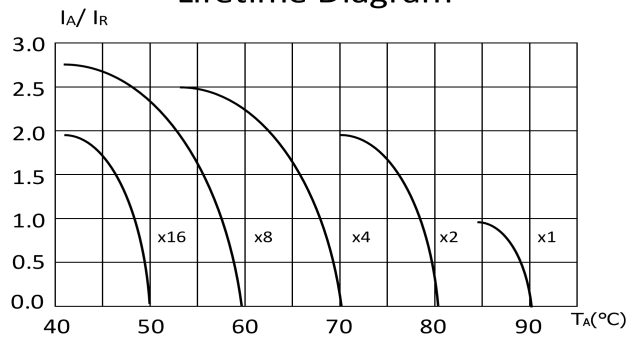
WV (SV)	Cap.	tanδ	Typ ESR	Ripple Current	Size φDxL
		20℃ 120Hz		85℃ 120Hz	
V	μF	-	mΩ	Arms	mm
50(63)	150000	0.60	3	19.3	77x120
	220000	0.60	2	21.4	77x145
	330000	0.70	2	23.6	77x185
	470000	0.70	1	25.8	90x145
63(79)	10000	0.25	23	4.9	36x70
	15000	0.30	16	5.9	36x80
	22000	0.30	13	7.8	51x80
	33000	0.40	8	8.4	51x80
	47000	0.40	6	11.3	51x100
	56000	0.40	6	12.8	51x120
	68000	0.50	5	12.7	65x100
	82000	0.50	4	14.5	65x120
	100000	0.50	4	16.7	77x120
	150000	0.50	2	22.4	77x145
	220000	0.60	2	26.2	90x145
	330000	0.60	2	28.9	90x185
80(100)	12000	0.25	15	5.9	36x80
	15000	0.25	12	6.8	51x80
	22000	0.30	10	8	51x80
	33000	0.30	7	10.5	51x120
	47000	0.30	5	13.6	65x100
	68000	0.40	4	15.4	77x120
	100000	0.40	3	20.5	77x120
100(125)	4700	0.25	26	3.5	36x60
	6800	0.25	22	4.5	36x70
	8200	0.25	20	5.1	36x80
	10000	0.25	19	5.9	36x80
	15000	0.25	12	7	51x80
	22000	0.25	8	10	65x100
	33000	0.25	6	11.9	65x120
	47000	0.35	5	14.2	77x145
	68000	0.35	3	18.8	77x145
	82000	0.35	3	20.5	77x185
	100000	0.35	3	24	77x185
	120000	0.35	3	26.2	90x235
160(200)	1000	0.25	39	4	36x60
	2200	0.25	33	4.8	36x70
	3300	0.25	27	5.2	36x80
	4700	0.25	21	5.9	51x80
	5600	0.25	19	7	51x80
	6800	0.25	16	7.8	51x100
	8200	0.25	14	9	51x120
	10000	0.25	13	10.4	65x100

Standard Ratings

WV (SV)	Cap.	tanδ	Typ ESR	Ripple Current	Size φDxL
		20℃ 120Hz		85℃ 120Hz	
V	μF	-	mΩ	Arms	mm
160 (200)	12000	0.25	10	11.6	65x100
	15000	0.25	9	14.3	65x120
	18000	0.25	8	15.6	65x120
	22000	0.25	6	18.3	77x120
	33000	0.25	4	23.8	90x145
	47000	0.25	2	28.5	90x145
	56000	0.25	2	30.1	90x235
200 (250)	3300	0.25	24	4.9	51x80
	4700	0.25	20	6.4	51x100
	5600	0.25	18	7.6	51x120
	6800	0.25	14	8.8	65x100
	10000	0.25	9	10.4	77x120
	15000	0.25	7	14.4	77x120
	22000	0.25	4	19.6	77x145
	33000	0.25	3	25.3	90x155
	47000	0.25	2	28.2	90x185
250 (300)	2200	0.25	33	4	51x80
	3300	0.25	23	5.4	51x100
	4700	0.25	17	7.1	51x100
	6800	0.25	12	9.1	65x100
	10000	0.25	11	11.7	65x120
	15000	0.25	7	15.1	77x120
	22000	0.25	3	20.9	90x145
	27000	0.25	3	23.2	90x185
	33000	0.25	2	26.5	90x235
	47000	0.25	2	29.1	101x235
350 (400)	3300	0.25	32	7.9	51x120
	4700	0.25	25	10.3	65x120
	5600	0.25	22	11.4	77x120
	6800	0.25	17	13.1	77x145
	10000	0.25	12	18.1	90x155
	12000	0.25	10	20	90x155
	15000	0.25	8	24.5	90x185
	22000	0.25	6	28.2	90x235
	33000	0.25	4	31.3	101x250
400 (450)	2200	0.25	35	6.4	51x120
	3300	0.25	31	8.2	65x100
	4700	0.25	24	10.4	77x100
	5600	0.25	20	12.2	77x120
	6800	0.25	16	14.1	77x145
	8200	0.25	13	16.5	77x155
	10000	0.25	11	18.3	90x155
	12000	0.25	10	21.8	90x185

WV (SV)	Cap.	tanδ	Typ ESR	Ripple Current	Size φDxL
		20℃ 120Hz		85℃ 120Hz	
V	μF	-	mΩ	Arms	mm
400 (450)	15000	0.25	8	26.3	90x235
	22000	0.25	6	29.5	90x235
450 (500)	1000	0.25	82	3.5	51x80
	1500	0.25	58	5.1	51x100
	1800	0.25	46	5.9	51x120
	2200	0.25	33	6.3	65x100
	3300	0.25	30	8.7	65x120
	4700	0.25	24	10.9	77x120
	5600	0.25	16	12.8	77x145
	6800	0.25	14	15	77x145
	8200	0.25	12	16.5	77x220
	10000	0.25	10	20	90x185
	12000	0.25	8	23.6	90x185
	15000	0.25	6	25	90x236
500 (550)	1000	0.3	85	4.6	51x100
	1500	0.30	60	5.7	51x120
	2200	0.3	40	6.9	65x120
	3300	0.30	32	9.5	77x120
	4700	0.3	27	12	77x145
	5600	0.30	21	13.9	77x185
	6800	0.3	18	16	90x155
	8200	0.30	14	17.5	90x185
	10000	0.3	10	22	90x235

Lifetime Diagram



I_A=actual ripple current at 120Hz, I_R=rated ripple current at 120Hz,105℃
Multiplier at useful Life as a function of ambient temperature and ripple load