

WE Series

Features

- Screw-mount terminal type
- Endurance with ripple current: 105°C 2000 hours
- High ripple current capability
- Safety vent designed on aluminum case
- RoHS2.0 Compliant

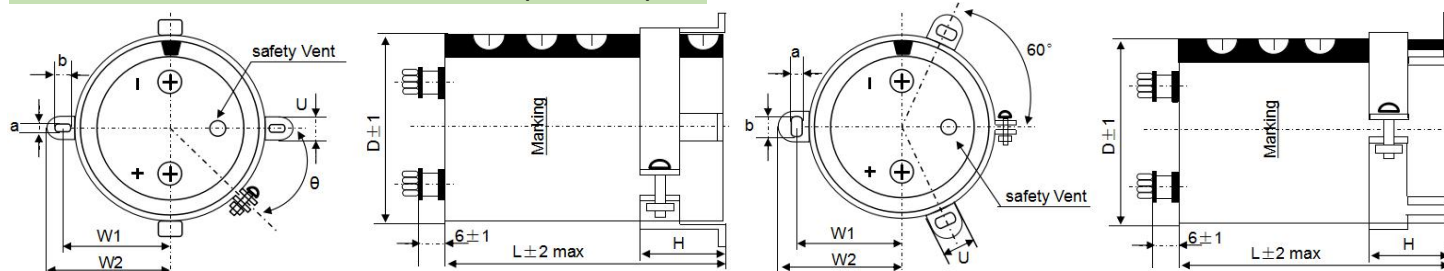
Applications

- Professional power supply
- Inverter
- UPS
- Air conditioner, general purpose inverter
- Professional arena power amplifier
- Frequency converters
- Medical power supply
- New energy
- And others

规格表 Specifications

项目 Items	特性参数 Characteristics		
使用温度范围 Category Temperature Range	-40 ~ +105°C (10 ~ 100V.DC)		-25 ~ +105°C (160 ~ 400V.DC)
额定工作电压范围 Rated Voltage Range	10 ~ 400V.DC		
电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)		
漏电流 Leakage Current	I≤0.02CV or 5mA, 二者取最小值 (施加额定工作电压5分钟后) Whichever is smaller (After 5 minutes application of rated Voltage) Note: I=Max.leakage current (μA), C=Nominal capacitance(μF), V=Rated voltage(V) (at 20°C)		
损耗角正切值 tanδ Dissipation Factor	不能超过规格表所规定的标准值 Shall not exceed the values shown in the STANDARD RATINGS. (at 20°C, 120Hz)		
低温特性 Low Temperature Characteristics (Max.Capacitance Ratio)	容量比值不得超过下表中所列出的值 The Capacitance ratio shall not exceed the values listed in the below table. (at 120Hz)		
	Rated voltage(V)	Temperature	Ratio
	25 ~ 100V	C(-40°C)/C(+20°C)	≥ 0.6
	160 ~ 400V	C(-25°C)/C(+20°C)	≥ 0.7
绝缘阻抗 Insulation Resistance	在螺丝端子与固定架之间施加直流电压 500V, 测量其绝缘阻抗值不低于 100MΩ。 The insulation resistance shall be more than 100MΩ at DC 500V application between terminal and bracket.		
绝缘耐压 Voltage proof	在螺丝端子与固定架之间施加交流电压 2000V, 1分钟, 无电气性能异常。 There shall not be electrical damage during application of AC 2000V voltage between terminal and bracket 1 minute.		
耐久性 Endurance	在105°C环境中, 不超过额定电压的范围内叠加最大允许纹波电流, 连续2000小时, 经恢复到20°C后, 电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored to 20°C after applied within maximum allowable ripple current and not over rated voltage range for 2000 hours at 105°C.		
	Capacitance change	≅ ±20% of the initial value	
	D F (tanδ)	≅ 200% of the initial specified value	
	Leakage current	≅ The initial specified value	
高温储存特性 Shelf Life	在105°C环境中, 不施加电压条件下储存500小时, 经恢复到20°C后, 电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored at 20°C after exposing them for 500 hours at 105°C without voltage applied.		
	Capacitance change	≅ ±20% of the initial value	
	D F (tanδ)	≅ 200% of the initial specified value	
	Leakage current	≅ 200% of the initial specified value	

尺寸图 (单位: mm) DIMENSIONS (Unit:mm)



*θ is optional for 45° or 30°

ΦD	W1	W2	U	a	b	H
36.0	24.0	29.0	10.0	3.8	7.0	15.0
51.0	34.0	40.0	14.0	5.0	7.0	30.0
64.0	40.5	46.5	14.0	5.0	7.0	30.0
77.0	46.8	53.0	14.0	5.0	7.0	30.0
90.0	54.0	60.3	14.0	5.0	7.0	30.0

ΦD	W1	W2	U	a	b	H
51.0	31.8	36.5	14.0	5.0	7.0	30.0
64.0	38.1	42.6	14.0	5.0	7.0	30.0
77.0	44.5	49.2	14.0	5.0	7.0	30.0
90.0	50.8	55.6	14.0	5.0	7.0	30.0
101.0	57.5	63.5	20.0	5.5	8.0	35.0



WE Series◆ 纹波电流修正系数 **Rated Ripple Current Coefficient**● 频率系数 **Frequency Coefficient**

Rated Voltage (V)	Case diameter (mm)	Frequency(Hz)					
		50	120	300	1K	10K	50K
10~50	Φ35~Φ76	0.95	1	1.03	1.05	1.09	1.12
63~80	Φ35	0.9	1	1.06	1.1	1.18	1.22
	Φ50~Φ76	0.95	1	1.03	1.05	1.09	1.12
100	Φ35	0.82	1	1.12	1.22	1.3	1.33
	Φ50	0.9	1	1.06	1.1	1.18	1.22
	Φ64~Φ76	0.95	1	1.03	1.05	1.09	1.12
160~250	Φ35	0.8	1	1.19	1.34	1.46	1.52
	Φ50~Φ64	0.81	1	1.14	1.26	1.36	1.41
	Φ76	0.82	1	1.12	1.22	1.3	1.33
315~400	Φ35~Φ76	0.8	1	1.19	1.34	1.46	1.52

※铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化，中心温度每升温5℃寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流。

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.



WE Series

◆ 标准品一览表 Standard Ratings

WV(V) Cap.(μF)	10(1A)			16(1C)			25(1E)			35(1V)			50(1H)			63(1J)			80(1K)											
2200																			35×50	2.6	0.15									
2700																		35×50	2.5	0.2	35×50	2.9	0.15							
3300																		35×50	2.6	0.2	35×50	3.2	0.15							
3900														35×50	3.1	0.2		35×50	2.9	0.2	35×60	3.6	0.15							
4700														35×50	3.4	0.2		35×50	3.3	0.2	35×60	3.8	0.15							
5600														35×50	3.6	0.2		35×60	3.6	0.2	35×80	4.7	0.15							
6800														35×50	3.5	0.25		35×60	4.1	0.2	35×80	5.1	0.15							
8200											35×50	3.5	0.3					35×60	3.9	0.25	35×80	4.9	0.2	35×100	5.2	0.2				
10000											35×50	3.8	0.3					35×80	4.8	0.25	35×80	4.9	0.25	35×120	6.4	0.2				
12000								35×50	3.9	0.35				35×60	4.5	0.3		35×80	5.4	0.25	35×100	5.8	0.25	50×80	6.8	0.2				
15000								35×50	4.5	0.35				35×60	4.9	0.3		35×80	5.9	0.25	35×120	6.9	0.25	50×100	8.8	0.2				
18000				35×50	4.6	0.4		35×60	4.9	0.35				35×80	5.8	0.3		35×100	6.8	0.25	50×80	7.8	0.25	50×120	10.1	0.2				
22000				35×50	4.9	0.4		35×60	5.6	0.35				35×80	6.7	0.3		35×120	8.3	0.25	50×100	9.3	0.25	50×120	11.2	0.2				
27000	35×50	5.2	0.45	35×60	5.9	0.4		35×80	6.5	0.35				35×100	7.8	0.3		50×80	9.4	0.25	50×120	11.1	0.25	64×100	11.6	0.25				
33000	35×50	5.3	0.5	35×60	5.9	0.45		35×80	6.9	0.4				35×120	9.5	0.3		50×100	11.5	0.25	50×120	12.3	0.25	76×100	14.1	0.25				
39000	35×60	6.1	0.5	35×80	7.1	0.45		35×100	7.9	0.4				50×80	9.5	0.35					64×100	12.9	0.3	76×100	14.1	0.3				
47000	35×80	7.2	0.5	35×80	7.3	0.5		35×120	9.5	0.4				50×100	11.5	0.35					64×120	15.1	0.3	76×120	16.8	0.3				
56000	35×80	7.3	0.6	35×100	8.6	0.5		50×80	9.9	0.45				50×100	11.6	0.4					64×100	14.1	0.35	64×120	16.7	0.3	76×120	18.8	0.3	
68000	35×100	8.7	0.6	35×100	8.9	0.55		50×100	11.8	0.45				50×120	13.9	0.4					64×120	16.9	0.35	76×120	18.8	0.35	76×140	20.1	0.35	
82000	35×100	9.1	0.65	50×80	10.9	0.55		50×100	11.8	0.5				64×100	14.9	0.45					76×120	19.1	0.4	76×140	20.3	0.4				
100000	35×120	10.8	0.65	50×80	10.9	0.65		50×120	14.8	0.5				64×120	17.8	0.45					76×120	19.6	0.45	76×140	20.3	0.5				
120000	50×80	11.3	0.75	50×100	13.5	0.65		64×100	15.1	0.65				64×120	17.8	0.55					76×120	19.6	0.55							
150000	50×100	13.5	0.8	50×120	15.6	0.7		64×120	18.1	0.65				76×120	20.1	0.65														
180000	50×120	15.9	0.8	50×120	15.9	0.8		64×120	18.2	0.8				76×120	20.1	0.8														
220000	50×120	16.9	0.85	64×120	19.5	0.85		76×120	21.6	0.85				76×140	23.5	0.8														
270000	64×120	20.1	1	64×120	19.9	1		76×120	21.9	1																				
330000	64×120	19.9	1.2	76×120	21.6	1.3		76×140	23.8	1.2																				
390000	76×120	21.6	1.5	76×120	21.6	1.5																								
470000	76×120	21.7	1.8	76×140	24.5	1.6																								
560000	76×140	23.9	2																											

WV(V) Cap.(μF)	100(2A)			160(2C)			200(2D)			250(2E)			315(2F)			350(2V)			400(2G)											
180														35×50	0.9	0.1		35×50	0.9	0.1	35×50	0.8	0.1							
220														35×50	1.1	0.1		35×50	1.1	0.1	35×50	0.9	0.1							
270											35×50	0.9	0.15					35×50	1.2	0.1	35×50	1.2	0.1	35×50	1	0.1				
330								35×50	1	0.15				35×50	1.1	0.15		35×50	1.3	0.1	35×50	1.3	0.1	35×60	1.2	0.1				
390								35×50	1.2	0.15				35×50	1.3	0.15		35×50	1.5	0.1	35×60	1.5	0.1	35×60	1.3	0.1				
470								35×50	1.3	0.15				35×50	1.5	0.15		35×60	1.8	0.1	35×60	1.8	0.1	35×80	1.4	0.1				
560				35×50	1.5	0.15		35×50	1.5	0.15				35×50	1.5	0.15		35×60	1.9	0.1	35×80	1.9	0.1	35×80	1.4	0.15				
680				35×50	1.6	0.15		35×50	1.6	0.15				35×60	1.8	0.15		35×80	1.9	0.1	35×80	1.9	0.15	35×100	1.7	0.15				
820				35×50	1.8	0.15		35×50	1.7	0.15				35×80	5.8	0.15		35×80	1.9	0.15	35×100	1.9	0.15	35×120	2	0.15				
1000				35×50	1.9	0.15		35×60	1.9	0.15				35×80	1.7	0.2		35×100	2.3	0.15	35×120	2.3	0.15	50×80	2.2	0.15				
1200				35×60	2.1	0.15		35×60	2.1	0.15				35×80	1.9	0.2		35×120	2.7	0.15	50×80	2.7	0.15	50×100	2.7	0.15				
1500				35×60	2.3	0.15		35×80	2.6	0.15				35×100	2.2	0.2		50×80	2.9	0.15	50×100	3.2	0.15	50×120	3.3	0.15				
1800	35×50	2.9	0.1	35×80	2.6	0.15		35×80	2.8	0.15				35×120	2.8	0.2		50×100	3.5	0.15	50×120	3.7	0.15							
2200	35×50	3.1	0.1	35×80	2.9	0.15		35×100	3.2	0.15				50×80	3.1	0.2		50×120	4.7	0.15	50×120	4.7	0.15	64×100	4.2	0.15				
2700	35×60	3.6	0.1	35×100	3.6	0.15		35×120	3.9	0.15				50×100	3.8	0.2		50×120	4.8	0.15	64×100	4.8	0.15							
3300	35×80	4.4	0.1	35×120	3.9	0.15		50×80	4.3	0.15				50×120	4.5	0.2		64×100	5.7	0.15				64×120	5.5	0.15				
3900	35×80	4.5	0.12	50×80	3.9	0.2		50×100	5.1	0.15				50×120	4.9	0.2		64×120	6.7	0.15	76×120	6.9	0.15							
4700	35×100	5.2	0.12	50×100	4.9	0.2		64×100	5.8	0.2				64×120	5.9	0.2		76×100	7.1	0.15				76×130	7.6	0.15				
5600	35×100	5.6	0.12	50×100	5.2	0.2		64×100	6.1	0.2				64×120	6.8	0.2		76×120	8.2	0.15	76×130	8.5	0.15							
6800	35×120	5.9	0.15	50×120	6.4	0.2		64×120	7.1	0.2				76×120	7.9	0.2		76×130	9.7	0.15	76×140	9.8	0.15							
8200	50×80	6.8	0.15	64×100	7.3	0.2		64×120	7.9	0.2				76×120	8.9	0.2														
10000	50×100	7.9	0.15	64×120	8.7	0.2		76×120	10.2	0.2				76×140	10.2	0.2														
12000	50×120	9.5	0.15	76×100	9.5	0.2		76×120	10.8	0.2																				
15000	50×120	10.8	0.15	76×120	11.8	0.2		76×140	12.7	0.2																				
18000	64×100	10.8	0.2	76×140	13.7	0.2																								

tanδ(Max.) at 20°C/120Hz
 Maximum allowable ripple current at 105°C/120Hz(A.r.m.s)
 Case size : ΦD×L(mm)

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