

WF Series

Features

- Screw-mount terminal type, Long life
- Endurance with ripple current: 85°C 5000 hours
- High ripple current capability
- Safety vent designed on aluminum case
- RoHS2.0 Compliant

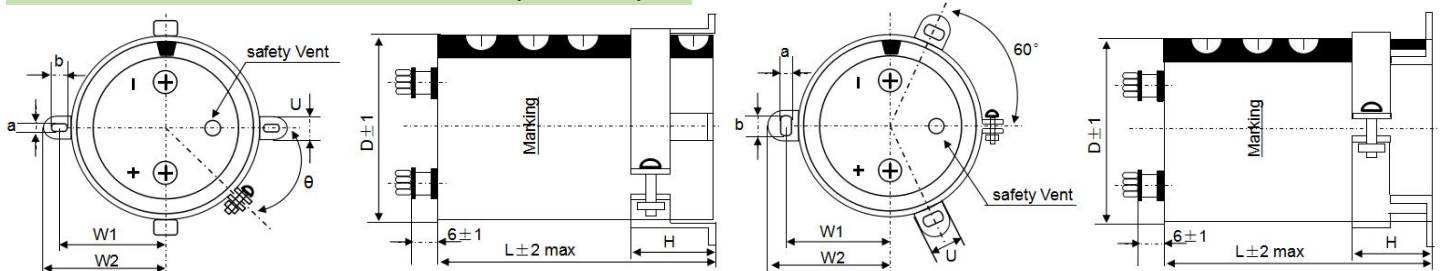
Applications

- 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	-25 ~ +85°C	
额定工作电压范围 Rated Voltage Range	350 ~ 450V.DC	
电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)	
漏电流 Leakage Current	$I \leq 0.02CV$ 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	0.25 Max (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列出的值 The Capacitance ratio shall not exceed the values listed in the below table.(at 120Hz) Capacitance change : $C(-25^{\circ}C)/C(+20^{\circ}C) \geq 0.7$	
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.	
绝缘耐电压 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85°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5000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 5000 hours at 85°C.	
	Capacitance change	≅ ±20% of the initial value
	D F (tanδ)	≅ 200% of the initial specified value
高温储存特性 Shelf Life	在85°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 85°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)



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



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

Frequency (Hz)	50	120	300	1k	≥3k
Coefficient	0.7	1	1.1	1.3	1.4

● 温度系数 **Temperature Coefficient**

Ambient Temperature(°C)	40	60	85
Coefficient	1.89	1.67	1

◆ 标准品一览表 **Standard Ratings**

WV(V) Items ΦD×L (mm)	350(2V)		400(2G)		450(2W)	
	Cap. (μF) 20°C/120Hz	Maximum allowable ripple current at 85°C/120Hz(A.r.m.s)	Cap. (μF) 20°C/120Hz	Maximum allowable ripple current at 85°C/120Hz(A.r.m.s)	Cap. (μF) 20°C/120Hz	Maximum allowable ripple current at 85°C/120Hz(A.r.m.s)
50×100	2200	7.9	1800	6.7	1200	5.2
50×120	2700	9.1	2200	7.5	1800	7.3
50×140	3300	10.2	2700	9.1	2200	8.2
64×120	3900	12	3300	10.5	2700	9.8
64×140	4700	14	3900	12	3300	11
64×170	5600	16.2	4700	15	3900	13
64×190	6800	20	5600	18	4700	16
76×120	5600	16	4700	14	3900	13
76×140	6800	18.2	5600	15	4700	15
76×160	8200	22	6800	20	5600	18
76×190	10000	25	8200	21	6800	19

※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°C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°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

