

WN Series**Features**

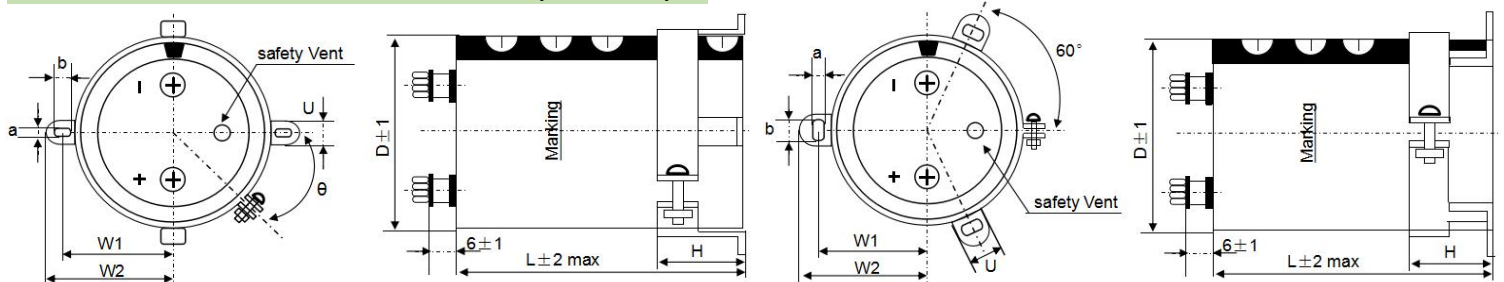
- Screw-mount terminal type, High voltage
- Endurance with ripple current: 85°C 2000 hours
- High ripple current capability
- Safety vent designed on aluminum case
- RoHS2.0 Compliant

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	-25 ~ +85℃			
额定工作电压范围 Rated Voltage Range	550V、600V.DC			
电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20℃,120Hz)			
漏电流 Leakage Current	I≤0.01CV 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℃)			
损耗角正切值 tanδ Dissipation Factor	Rated voltage(V)	600	630	(at 20℃,120Hz)
	tanδ (Max.)	0.25	0.3	
低温特性 Low Temperature Characteristics (Max.Impedance Ratio)	阻抗比值不得超过下表中列出的值 The impedance ratio shall not exceed the values listed in the below table.(at 120Hz)			
	Rated voltage(V)	600	630	
	Z(-25℃)/Z(+20℃)	8	10	
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℃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℃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℃ after applied within maximum allowable ripple current and not over rated voltage range for 2000 hours at 85℃.			
	Capacitance change	≤±20% of the initial value		
	D F (tanδ)	≤ 300% of the initial specified value		
	Leakage cunent	≤ The initial specified value		
高温储存特性 Shelf Life	在85℃环境中，不施加电压条件下储存500小时，经恢复到20℃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℃ after exposing them for 500 hours at 85℃ without voltage applied.			
	Capacitance change	≤±20% of the initial value		
	D F (tanδ)	≤ 300% of the initial specified value		
	Leakage cunent	≤ 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

WN 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	10k	100k
550V	0.77	1	1.16	1.32	1.43	1.48
600V	0.76	1	1.07	1.3	1.41	1.45

◆ 标准品一览表 Standard Ratings

Cap.(μF) \ WV(V)	550(2L)			600(2M)		
120				35*55 1.87	40*50 1.94	
180				35*55 2.05	40*60 2.3	
220	35*55 1.01	40*50 1.12		35*80 2.47	40*75 2.68	
270	35*60 1.32	40*55 1.43			40*90 2.96	50*80 3.12
330	35*80 1.55	40*70 1.69			40*100 3.34	50*90 3.49
390		40*80 1.8	50*70 1.94			50*100 3.7
470		40*90 2.01	50*85 2.12			50*120 3.91
560			50*100 2.46			
680		50*120 2.75	← Case size: ΦD×L(mm) ← Maximum allowable atriipple current at 85℃/120Hz(A.r.m.s)			

※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.