

WP 特长寿命 / 高可靠性 (CD138S)

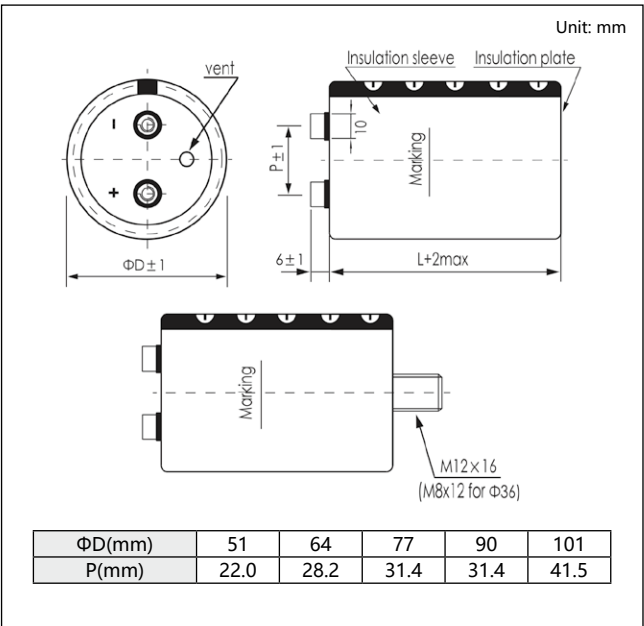
- 85°C 10000 小时保证品；更高纹波；高可靠，长寿命；符合 RoHS 标准；适用于专业电源和变频器。
10000 hours at 85°C, Higher ripple current, Long useful life & high reliability, RoHS Compliant, Suitable for professional power application and inverters.



主要技术性能 Specifications

项 目 Item	特 性 Performance Characteristics				
使用温度范围 Operating Temperature Range	-40~+85℃				
额定电压范围 Rated Voltage Range	350~500V _{dc}				
标称电容量范围 Nominal Capacitance Range	1500~12000μF				
标称电容量允许偏差 Capacitance Tolerance	±20% (20℃ , 120Hz)				
漏电流 Leakage Current	I ≤ 0.01CV 或 1.5mA 取较小值 (after 5 minutes at 20℃ , Whichever is smaller) C: 标称容量 Nominal Capacitance(μF) V: 标称电压 Rated Voltage(V)				
损耗角正切值 Dissipation Factor	Less than 0.15 (20℃ , 120Hz)				
低温特性 (120Hz) Stability at Low Temperature	C _{-25℃ / +20℃} ≥ 0.7				
项目 Items	使用寿命 Useful Life		负载寿命 Load Life	耐久试验 Endurance Test	高温贮存 Shelf Life
寿命 Lifetime	15000h	>250000h	10000h	12000h	1000h
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	≤初始规定值 Not more than specified value
容量变化率 Capacitance Change	初始值 ±30% 以内 Within ±30% of initial value		初始值 ±20% 以内 Within ±20% of initial value	初始值 ±10% 以内 Within ±10% of initial value	初始值 ±20% 以内 Within ±20% of initial value
损耗变化率 Dissipation Factor	≤初始规定值的 3 倍 Not more than 300% of specified value		≤初始规定值的 2 倍 Not more than 200% of specified value	≤初始规定值的 1.3 倍 Not more than 130% of specified value	≤初始规定值的 2 倍 Not more than 200% of specified value
使用条件 Condition: 使用电压 Applied Voltage 使用电流 Applied Current 使用温度 Applied Temperature	U _R I _R 85℃	U _R 1.2×I _R 40℃	U _R I _R 85℃	U _R I _R =0 85℃	U _R =0 I _R =0 85℃ 试验后：施加额定电压 60 分钟后恢复 24 小时 After test U _k to be applied for 60min, >24h before measurement

外形图及尺寸 Diagram of Dimensions



纹波电流修正系数 Multiplier for Ripple Current

Frequency (Hz)	50/60	120	500	1K	>10K
Coefficient	0.80	1.00	1.10	1.30	1.40

Temperature (°C)	40	60	85
Coefficient	1.89	1.67	1.00

* 六角头螺钉 M5×10 和 M6×12 是标准螺钉。
可根据要求提供更长的螺钉。
* 螺钉端子的最大拧紧力矩 M5:3Nm, M6:4Nm。
螺栓安装的最大扭矩 M12:12.5Nm。
* 螺钉、支架和盖形螺母将单独交付。
形状和尺寸见“附件”。
* Hex head screw M5×10 and M6×12 are standard screws.
Longer screws are available on request.
* Max tightening torque for screw terminanl M5:3Nm, M6:4Nm.
Max troque for bolt mounting M12:12.5Nm.
* Screws, Bracket and cap nut will be delivered separately.
See "Accessories" for shape and dimensions.

通过在低于额定值的负载（例如，较低的工作电压、Rms 纹波电流或环境温度）下操作电容器以及采取适当的冷却措施，可以延长使用寿命。
The useful life can be prolonged by operating capacitor at loads below the rated values (e.g.lower operating voltage, Rms ripple current or ambient temperature) and by appropriate cooling measures.

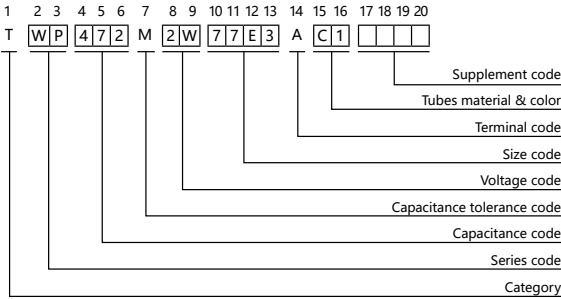
建议不要在没有任何冷却措施的情况下施加超过额定纹波电流的纹波电流，因为这会缩短电容器的寿命。
It is advisable not to apply a ripple current exceeding the rated ripple current without any cooling measures as this will shorten capacitor's life.

Screw Terminal

标准品一览表 Standard Ratings

U _R (Surge Voltage) Code (V)	Rated Cap. (μF)	Max ESR 20°C 120Hz (mΩ)	Type ESR 20°C 120Hz (mΩ)	Rated ripple current 85°C 120Hz (Arms)	Size ΦD×L (mm)
350 (400) 2V	3900	50	25	14.6	64×96
	4700	40	20	16.9	64×115
	5600	34	17	19.8	64×130
	5600	34	17	21.6	77×115
	6800	28	14	25.0	77×143
	6800	28	14	26.2	90×105
	8200	24	12	29.3	77×143
	8200	24	12	30.1	77×155
	10000	18	9	35.7	90×157
	12000	16	8	39.1	90×157
400 (450) 2G	2700	76	38	11.5	64×96
	3300	60	30	14.2	64×115
	3900	52	26	16.5	64×115
	3900	52	26	17.2	77×105
	4700	42	21	18.1	64×130
	4700	42	21	20.8	77×115
	5600	36	18	22.7	77×130
	5600	36	18	23.8	90×105
	6800	30	15	26.6	77×155
	6800	30	15	27.4	90×130
	8200	24	12	32.2	90×157
	10000	20	10	35.7	90×157
450 (500) 2W	2200	92	46	10.4	64×96
	2200	92	46	11.5	77×80
	2700	76	38	12.8	64×115
	3300	60	30	15.2	64×130
	3300	60	30	15.8	77×105
	3900	54	27	16.5	64×130
	3900	54	27	18.0	77×115
	4700	42	21	20.8	77×143
	4700	42	21	21.8	90×105
	5600	36	18	24.2	77×143
	5600	36	18	24.9	90×130
	6800	30	15	29.4	90×157
	8200	24	12	32.2	90×157
	10000	20	10	36.9	90×171
	1500	148	74	8.6	64×96
500 (550) 2H	1800	132	62	10.0	64×115
	2200	102	51	11.7	64×130
	2700	82	41	15.0	77×115
	3300	68	34	17.5	77×130
	3900	58	29	20.2	77×143
	4700	48	24	21.8	90×130
	5600	40	20	25.3	90×157
	6800	32	16	29.0	90×171

产品编码体系 Part Number System (Ex 450V 4700μF)



可根据客户需要定制产品 Customer products are available on request.