

KP Standard Series

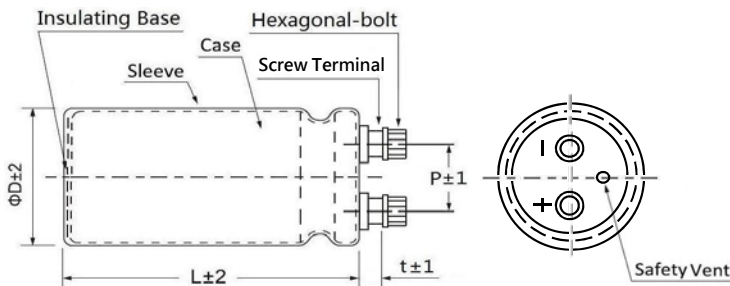


- Endurance: 85°C 2000hours
- Recommended Applications : UPS 、 service system 、 press working equipment 、 charging equipment 、 inverter 、 converter
- Corresponding product to RoHS

SPECIFICATIONS

Item	Characteristics											
Category Temperature Range	-40 ~ +85°C	-25 ~ +85°C										
Rated Voltage Range	6.3~ 100VDC	160~450VDC										
Capacitance Tolerance	± 20 % (120Hz , 20°C)											
Leakage Current (20°C)	I ≤ 0.02CV or 5mA whichever is greater. (After rated voltage applied for 5 minutes) I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V)											
Dissipation Factor(MAX) (tan δ) (120Hz , 20°C)	WV	6.3~10	16	25	35	50	63	80	100	160~250	350~450	
	tan δ	φ 35	0.75	0.60	0.40	0.30	0.25	0.20	0.20	0.15	0.15	0.20
		φ 51	1.00	0.70	0.50	0.50	0.30	0.25	0.20	0.20	0.15	0.20
		φ 64	1.30	0.80	0.70	0.60	0.50	0.30	0.25	0.25	0.20	0.25
		φ 77	1.50	1.00	0.80	0.70	0.60	0.40	0.30	0.25	0.20	0.25
φ 90	1.50	1.00	0.80	0.70	0.60	0.40	0.30	0.25	0.20	0.25		
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz											
	Rated voltage(V)	10~100					160~450					
	Z-25°C / Z+20°C	-					8					
	Z-40°C / Z+20°C	12					-					
Endurance	After applying rated voltage with ripple current for 2000 hours at 85°C , the capacitors shall meet the following requirements.											
	Capacitance change	Within ± 15% of initial value										
	D.F. (tan δ)	Not more than 175% of specified value										
Shelf Life	After placed at 105°C without voltage applied for 1000 hours, the capacitor shall meet the same requirements as Endurance.											
	Leakage current	Not more than the specified value										

Dimensions [mm]



ΦD	P	t	Hexagonal-bolt
35	12.7	6.3	M5 × 0.8 × 10
51	21.8	6.3	M5 × 0.8 × 10
64	28.2	6.3	M5 × 0.8 × 10
77	31.4	5.8	M5 × 0.8 × 10
90	31.4	5.8	M5 × 0.8 × 10

Multiplier for Ripple Current

Freq. (Hz)	60	120	1K	10K	100K
W.V	coefficient				
6.3~35V	0.90	1.00	1.05	1.10	1.10
50~100V	0.90	1.00	1.10	1.15	1.15
160~450V	0.80	1.00	1.20	1.40	1.40

Temperature	≤ 60	70	85
coefficient	1.8	1.6	1.00

■ STANDARD RATINGS

Rated Voltage (Surge Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	R.C (A/rms,85°C) (120Hz)	Rated Voltage (Surge Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	R.C (A/rms,85°C) (120Hz)
6.3 (8)	47000	35x50	0.75	4.94	35(44)	10000	35x50	0.30	3.53
	56000	35x60	0.75	4.96		12000	35x50	0.30	3.87
	68000	35x60	0.75	5.47		15000	35x60	0.30	3.96
	82000	35x80	0.75	6.82		18000	35x60	0.30	4.34
	100000	35x80	0.75	7.53		22000	35x80	0.30	4.93
	120000	35x121	0.75	9.15		27000	35x80	0.30	5.46
	150000	51x80	1.00	9.51		33000	35x121	0.30	7.20
	180000	51x80	1.00	10.42		39000	35x121	0.30	7.83
	220000	51x100	1.00	12.39		47000	51x80	0.50	8.26
	270000	64x100	1.30	13.68		56000	51x80	0.50	9.02
	330000	64x100	1.30	15.12		68000	51x100	0.50	10.35
	390000	64x121	1.30	16.97		82000	51x100	0.50	11.36
	470000	64x121	1.30	18.63		100000	64x100	0.60	11.48
	560000	77x121	1.50	18.80		120000	64x121	0.60	13.13
680000	77x121	1.50	20.71	150000	64x144	0.60	15.42		
10 (13)	33000	35x50	0.75	4.14	180000	64x144	0.60	16.89	
	39000	35x50	0.75	4.50	220000	77x144	0.70	17.79	
	47000	35x60	0.75	5.35	50(63)	6800	35x50	0.25	3.26
	56000	35x80	0.75	6.63		8200	35x50	0.25	3.58
	68000	35x80	0.75	7.31		10000	35x60	0.25	4.27
	82000	35x80	0.75	8.02		12000	35x60	0.25	4.68
	100000	35x121	0.75	9.21		15000	35x80	0.25	5.94
	120000	51x80	1.00	9.23		18000	35x80	0.25	6.51
	150000	51x80	1.00	10.32		22000	35x121	0.25	6.70
	180000	51x90	1.00	11.50		27000	35x121	0.25	7.42
	220000	51x121	1.00	13.66		33000	51x80	0.30	7.55
	270000	51x121	1.00	15.13		39000	51x80	0.30	8.20
	330000	64x121	1.30	17.25		47000	51x100	0.30	9.80
	390000	64x121	1.30	18.75		56000	51x100	0.30	10.70
470000	77x121	1.50	19.25	68000		64x100	0.50	11.34	
560000	77x121	1.50	21.01	82000		64x100	0.50	12.46	
16 (20)	22000	35x50	0.60	4.16	100000	64x144	0.50	12.81	
	33000	35x60	0.60	5.51	120000	64x144	0.50	14.03	
	39000	35x80	0.60	6.80	150000	77x144	0.60	15.86	
	47000	35x80	0.60	7.47	63 (79)	5600	35x50	0.20	2.97
	56000	35x100	0.60	9.03		6800	35x50	0.20	3.28
	68000	35x121	0.60	9.88		8200	35x60	0.20	3.89
	82000	35x121	0.60	10.85		10000	35x80	0.20	4.77
	100000	51x80	0.70	10.86		12000	35x80	0.20	5.23
	120000	51x90	0.70	11.74		15000	35x100	0.20	5.88
	150000	51x121	0.70	12.48		18000	35x121	0.20	6.16
	180000	51x121	0.70	13.67		22000	51x80	0.25	7.73
	220000	64x100	0.80	14.75		27000	51x80	0.25	8.56
	270000	64x115	0.80	17.37		33000	51x100	0.25	8.76
	330000	77x121	1.00	18.19		39000	51x121	0.25	10.22
390000	77x121	1.00	19.78	47000		64x100	0.30	11.88	
25(32)	18000	35x50	0.40	3.35		56000	64x100	0.30	12.96
	22000	35x60	0.40	4.01		68000	64x144	0.30	13.63
	27000	35x80	0.40	5.04	100000	77x144	0.40	15.86	
	33000	35x80	0.40	5.58	80 (100)	4700	35x50	0.20	2.72
	39000	35x80	0.40	6.06		5600	35x60	0.20	3.22
	47000	35x121	0.40	7.54		6800	35x80	0.20	4.03
	56000	35x121	0.40	8.23		8200	35x80	0.20	4.42
	68000	51x100	0.50	9.13		10000	35x100	0.20	5.41
	82000	51x100	0.50	10.03		12000	35x121	0.20	6.47
	100000	51x121	0.50	11.27		15000	51x80	0.20	7.63
	120000	51x121	0.50	12.33		18000	51x80	0.20	8.35
	150000	64x100	0.70	12.69		22000	51x100	0.20	8.76
	180000	64x100	0.70	13.89		27000	51x100	0.20	9.70
	220000	64x144	0.70	16.05		33000	64x100	0.25	10.22
270000	77x115	0.80	17.80	39000		64x100	0.25	11.11	
330000	77x144	0.80	20.38	47000		64x144	0.25	14.33	

■ STANDARD RATINGS

Rated Voltage (Surge Voltage) (V)	Cap (μF)	Case size Φ DxL(mm)	tan δ	R.C (A/rms,85°C) (120Hz)	Rated Voltage (Surge Voltage) (V)	Cap (μF)	Case size Φ DxL(mm)	tan δ	R.C (A/rms,85°C) (120Hz)
80 (100)	56000	64x144	0.25	15.64	250 (300)	820	35x60	0.15	2.37
	68000	77x144	0.30	16.27		1000	35x80	0.15	2.87
100 (125)	2200	35x50	0.15	2.15		1200	35x80	0.15	3.15
	2700	35x50	0.15	2.38		1500	35x100	0.15	3.49
	3300	35x50	0.15	2.64		1800	35x100	0.15	3.83
	3900	35x60	0.15	3.10		2200	51x70	0.15	4.28
	4700	35x80	0.15	3.87		2700	51x70	0.15	4.74
	5600	35x80	0.15	4.22		3300	51x90	0.15	5.38
	6800	35x100	0.15	5.15		3900	51x115	0.15	6.23
	8200	35x121	0.15	5.83		4700	64x96	0.20	7.06
	10000	51x80	0.20	6.03		5600	64x96	0.20	7.71
	12000	51x80	0.20	6.60		6800	64x115	0.20	9.19
	15000	51x121	0.20	8.86		8200	64x115	0.20	10.09
	18000	51x121	0.20	9.71		10000	64x130	0.20	11.76
	22000	64x100	0.25	9.79		12000	77x115	0.20	13.01
	27000	64x100	0.25	10.85		15000	77x130	0.20	14.70
33000	64x144	0.25	12.80	18000		77x155	0.20	17.40	
39000	77x115	0.25	13.11	22000		90x157	0.20	20.19	
47000	77x144	0.25	14.81	350 (400)	390	35x50	0.20	1.74	
160 (200)	1200	35x50	0.15		2.64	470	35x80	0.20	2.35
	1500	35x60	0.15		3.20	560	35x80	0.20	2.57
	1800	35x70	0.15		3.63	680	35x80	0.20	2.83
	2200	35x80	0.15		4.26	820	35x100	0.20	3.18
	2700	35x100	0.15		4.68	1000	35x100	0.20	3.51
	3300	35x121	0.15		5.22	1200	51x70	0.20	3.94
	3900	51x70	0.15		5.70	1500	51x70	0.20	4.41
	4700	51x70	0.15		6.26	1800	51x90	0.20	5.38
	5600	51x90	0.15		7.00	2200	51x90	0.20	5.95
	6800	51x90	0.15		7.72	2700	51x130	0.20	6.91
	8200	51x115	0.15		9.04	3300	51x130	0.20	7.63
	10000	64x96	0.20		10.30	3900	64x115	0.25	8.71
	12000	64x96	0.20		11.29	4700	64x130	0.25	9.81
	15000	64x130	0.20		13.83	5600	77x115	0.25	11.26
	18000	64x130	0.20		15.15	6800	77x130	0.25	13.08
	22000	77x130	0.20		18.57	8200	77x155	0.25	15.53
	27000	77x130	0.20		20.58	10000	90x157	0.25	17.71
	33000	90x131	0.20	23.90	12000	90x157	0.25	19.40	
39000	90x157	0.20	28.10	15000	90x196	0.25	23.93		
200 (250)	680	35x50	0.15	1.99	18000	90x236	0.25	28.51	
	820	35x50	0.15	2.19	400 (450)	330	35x80	0.20	1.97
	1000	35x60	0.15	2.62		390	35x80	0.20	2.14
	1200	35x60	0.15	2.87		470	35x80	0.20	2.35
	1500	35x80	0.15	3.52		560	35x80	0.20	2.57
	1800	35x80	0.15	3.85		680	35x100	0.20	2.90
	2200	35x100	0.15	4.23		820	35x100	0.20	3.18
	2700	35x121	0.15	4.72		1000	51x70	0.20	3.60
	3300	51x70	0.15	5.24		1200	51x70	0.20	3.94
	3900	51x70	0.15	5.70		1500	51x90	0.20	4.91
	4700	51x90	0.15	6.42		1800	51x90	0.20	5.38
	5600	51x115	0.15	7.47		2200	51x130	0.20	6.23
	6800	51x130	0.15	8.70		2700	64x96	0.25	7.09
	8200	64x96	0.20	9.33		3300	64x115	0.25	8.01
	10000	64x96	0.20	10.30		3900	64x130	0.25	8.94
	12000	77x96	0.20	12.56		4700	77x115	0.25	10.32
	15000	77x96	0.20	14.04		5600	77x130	0.25	11.87
	18000	77x130	0.20	16.80		6800	77x155	0.25	14.14
22000	77x155	0.20	20.07	8200		90x157	0.25	16.03	
27000	90x131	0.20	21.62	10000	90x157	0.25	17.71		
33000	90x157	0.20	25.85	12000	90x196	0.25	21.40		
250 (300)	470	35x50	0.15	1.66	15000	90x236	0.25	26.02	
	560	35x50	0.15	1.81	450 (500)	270	35x50	0.20	1.45
	680	35x50	0.15	1.99		330	35x80	0.20	1.97

KP

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	R.C (A/rms,85°C) (120Hz)
450 (500)	390	35x80	0.20	2.14
	470	35x80	0.20	2.35
	560	35x100	0.20	2.63
	680	35x100	0.20	2.90
	820	51x70	0.20	3.26
	1000	51x70	0.20	3.60
	1200	51x90	0.20	4.39
	1500	51x115	0.20	5.17
	1800	51x130	0.20	5.64
	2200	64x96	0.25	6.40

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	R.C (A/rms,85°C) (120Hz)
450 (500)	2700	64x115	0.25	7.25
	3300	64x130	0.25	8.22
	3900	77x115	0.25	9.40
	4700	77x130	0.25	10.88
	5600	77x155	0.25	12.83
	6800	90x157	0.25	14.60
	8200	90x157	0.25	16.03
	10000	90x196	0.25	19.53
	12000	90x236	0.25	23.28