

PSA SERIES

Computer grade, Large capacitor

Features

- Screw terminal type
- Smaller dimensions and large capacity
- Ideal for inverter, computer
- Large allowable ripple current
- Load life of 2000 hours at 85°C

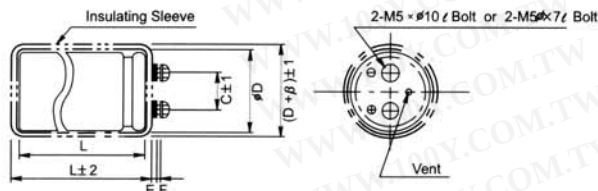
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
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[Http://www.100y.com.tw](http://www.100y.com.tw)



Specifications

Item	Performance Characteristics				
Operating temperature range	10V ~ 250V : -40°C ~ +85°C, 315 ~ 450V : -25°C ~ +85°C				
Rated working voltage range	10V ~ 450V				
Nominal capacitance range	270μF ~ 680000μF, ±20%(at 20°C, 120Hz)				
D.C Leakage current(at 20°C)	The following specifications shall be satisfied when the rated voltage is applied for the required time. $I \leq 0.02CV(\mu A)$ or 5mA (5 min), whichever is less. Where I =Leakage current(μA) C=Nominal capacitance(μF) V=Rated voltage(V)				
Tan δ (max., at 20°C, 120Hz)	W.V(V)	Tan δ			
	10	0.8 until 50000μF			
	16	0.7 until 50000μF			
	25~35	0.5 until 50000μF			
	50~100	0.3 until 30000μF			
	160~250	0.15 until 10000μF			
Characteristics at low temperature(max.) (Impedance ratio at 120Hz)	W.V(V)	10~16	25~100	160~250	315~450
	Z-25°C/Z20°C	4	3	3	8
	Z-40°C/Z20°C	12	6	8	—
Load life	After applying rated working voltage for 2000hours at +85°C and then being stabilized at +20°C, capacitors shall meet following limits.				
Capacitance change	Within ± 15% of the initial measured value				
Tan δ	≤ 175% of the initial specified value				
Leakage current	≤ The initial specified value				
Shelf life	After storage for 1000hours at + 85°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits.				
Capacitance change	Within ± 15% of the initial measured value				
Tan δ	≤ 175% of the initial specified value				
Leakage current	≤ The initial specified value				

Dimensions



φ D	C	E	F	β
35	12.7	2.5	6.0	1.0
51	22.0	2.5	6.0	1.5
63.5	28.6	2.5	6.0	1.5
76	31.0	1.5	6.5	1.5
89	31.0	1.5	6.5	1.5

Ripple current coefficient

Frequency

W.V(V)	Freq(Hz)	50	120	400	1K	10K
10~100		0.8	1.0	1.1	1.2	1.3
160~450		0.8	1.0	1.2	1.3	1.4

Temperature

W.V(V)	Temp	20°C	40°C	70°C	85°C
10~100		3.00	2.40	1.45	1.0
160~450		3.30	2.65	1.65	1.0



PSA SERIES

Standard Ratings of PSA Series

φ D_{XL}(mm)

W.V(V) Cap(μF)	10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)		80(1K)		100(2A)	
	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n
3300															35x50	3.0
3900															35x60	3.4
4700															35x70	3.8
5600													35x50	3.3	35x80	4.2
6800											35x50	3.1	35x60	3.7	35x90	4.5
8200											35x60	3.7	35x70	4.3	35x110	5.0
10000									35x60	3.9	35x70	4.2	35x80	4.9	35x120	5.5
12000							35x50	3.4	35x70	4.4	35x80	5.0	35x90	5.6	51x70	6.2
15000							35x60	4.0	35x80	5.4	35x90	5.8	35x110	6.5	51x80	7.4
18000					35x50	4.8	35x70	4.6	35x90	5.9	35x100	6.4	51x70	7.5	51x90	8.6
22000					35x60	5.5	35x80	5.5	35x100	6.4	35x120	7.2	51x80	8.2	51x100	11.0
27000			35x50	4.2	35x70	6.4	35x90	6.2	35x120	7.7	51x80	8.4	51x100	9.6	51x120	12.4
33000			35x60	5.0	35x80	7.2	35x100	7.2	51x70	8.2	51x80	9.2	51x110	10.4	63.5x100	14.0
39000			35x60	5.5	35x90	8.4	35x110	8.0	51x80	9.4	51x100	10.0	51x120	11.2	63.5x120	15.6
47000	35x50	4.6	35x70	6.4	35x100	9.4	51x80	8.8	51x90	10.5	51x120	11.5	63.5x100	12.0	63.5x140	16.8
56000	35x60	5.4	35x80	7.0	35x110	10.2	51x90	9.6	51x100	11.4	63.5x90	12.6	63.5x120	13.8	76x120	18.2
68000	35x70	6.2	35x90	8.0	35x120	10.8	51x100	11.0	51x120	12.8	63.5x100	14.6	63.5x130	15.6	76x140	21.0
82000	35x80	7.4	35x100	9.1	51x80	12.2	51x110	12.2	63.5x100	13.9	63.5x130	16.8	76x120	18.0		
100000	35x90	8.0	35x120	10.5	51x100	13.5	51x120	13.6	63.5x120	14.8	63.5x140	17.4	76x130	21.3		
120000	35x100	9.2	51x80	11.2	51x120	14.2	63.5x100	14.8	63.5x140	16.0	76x130	20.0	89x130	23.6		
150000	51x80	10.2	51x90	12.0	51x120	15.0	63.5x120	15.6	76x120	18.2	76x140	22.0				
180000	51x90	12.0	51x110	13.5	63.5x100	16.2	63.5x140	17.2	76x140	20.2	89x140	24.2				
220000	51x100	13.2	51x120	14.6	63.5x120	17.6	76x130	19.0	89x140	22.4						
270000	63.5x80	13.6	63.5x100	15.5	76x100	18.5	89x120	20.4								
330000	63.5x90	15.0	63.5x110	17.1	76x120	20.5	89x140	22.5								
390000	63.5x100	16.3	76x100	18.4	76x140	22.1										
470000	63.5x110	17.0	76x120	19.5	89x140	23.0										
560000	76x100	18.2	76x130	20.5												
680000	76x120	20.5														

W.V(V) Cap(μF)	160(2C)		180(2S)		200(2D)		250(2E)		315(2F)		350(2V)		400(2G)		450(2W)	
	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n	SIZE	I _n
270													35x50	1.4	35x50	1.4
330													35x60	1.6	35x60	1.6
390											35x50	1.7	35x70	1.9	35x70	1.8
470									35x50	1.2	35x60	1.9	35x80	2.2	35x80	2.0
560									35x60	1.4	35x70	2.2	35x90	2.5	35x100	2.4
680							35x50	1.6	35x70	1.7	35x80	2.5	35x100	2.8	35x120	2.8
820							35x60	2.0	35x80	1.9	35x90	3.0	35x110	3.3	51x70	3.0
1000			35x50	2.2	35x50	2.4	35x70	2.4	35x90	2.2	35x100	3.4	51x70	3.5	51x80	3.8
1200			35x60	2.7	36x60	2.8	35x80	2.7	35x100	2.6	35x120	4.0	51x90	4.4	51x100	4.4
1500			35x70	3.1	35x70	3.4	35x100	3.3	35x110	3.2	51x80	4.6	51x100	5.0	51x110	5.2
1800			35x80	3.6	35x80	4.0	35x120	4.0	35x120	4.0	51x90	5.2	51x110	5.6	51x130	5.7
2200	35x80	4.0	35x90	4.2	35x100	4.6	51x80	4.8	51x80	4.8	51x110	6.0	51x130	6.5	63.5x110	6.6
2700	35x100	5.0	35x100	5.0	35x120	5.0	51x90	5.5	51x100	5.8	51x120	6.7	63.5x110	7.6	63.5x130	7.8
3300	35x120	6.2	51x70	5.8	51x80	5.6	51x100	6.2	51x120	7.0	63.5x100	8.0	63.5x130	9.0	76x110	8.6
3900	51x70	6.8	51x80	6.8	51x90	6.4	51x120	7.0	63.5x120	8.0	63.5x120	9.0	63.5x140	9.8	76x130	10.0
4700	51x80	7.6	51x90	7.6	51x100	7.2	63.5x100	8.1	63.5x110	9.2	76x100	9.9	76x130	11.5	76x140	11.4
5600	51x90	8.6	51x110	8.6	51x120	8.2	63.5x110	9.2	63.5x120	10.4	76x120	12.0	76x140	12.6	89x120	12.4
6800	51x100	9.8	51x120	9.4	63.5x90	9.0	63.5x120	10.2	76x100	11.2	76x130	13.5	89x120	13.8	89x140	14.6
8200	51x120	11.0	63.5x100	10.6	63.5x100	10.4	76x100	11.4	76x120	12.8	89x120	14.8	89x140	15.6		
10000	63.5x100	12.4	63.5x120	11.5	63.5x120	11.6	76x120	12.5	89x120	15.0	89x140	16.4				
12000	63.5x120	13.6	76x100	13.2	76x100	12.9	76x140	14.0	89x140	17.2						
15000	76x100	15.0	76x120	15.4	76x120	14.0	89x140	16.4								
18000	76x120	16.8	89x120	16.9	76x140	15.6										
22000	76x140	18.6	89x140	19.0												
27000	89x120	21.2														
33000	89x140	23.8														

I_n: Max. permissible ripple current [A(rms) at 85°C, 120Hz]

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