

# LW series

- Load life : 85°C 10000Hours Screw terminal type.
- Suitable for use in industrial equipment industrial power, solar pv inverter, wind power, Marine, heavy trucks, and other fields.
- RoHS Compliance
- 85°C 10000小時 螺栓型端子。
- 適用於工業設備工控電源，太陽能光伏逆變器，風力發電，船舶，重型卡車等領域。



## SPECIFICATIONS

Items 項目	Characteristics 特性			
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)			
Operating Temperature Range 適用溫度範圍	- 25 ~ +85°C			
Rated Voltage Range 額定電壓範圍	350 ~ 450VDC			
Rated Capacitance Range 容量範圍	220 ~ 1,000,000µF			
Leakage Current 洩漏電流	I ≤ 3√CV (µA) or 5mA, which is greater. ( After 5 minutes application of DC rated voltage, at 20 °C)			
Dissipation Factor 散逸因素( tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C			
	Rated Voltage(V)	350	400	450
	tan δ(MAX)	0.15	0.15	0.15
Temperature Stability 溫度特性	Measurement Frequency: 120Hz.			
	Capacitance Change C(-25°C)/Z(20°C) ≥ 0.6			
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 10,000 hours at 85°C.			
	Capacitance Change	Within ± 20% of Initial Value		
	tan δ	200% or less of Initial Specified Value		
	Leakage Current	Initial Specified Value or less		
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours 85°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.			
	Capacitance Change	Within ± 20% of Initial Value		
	tan δ	200% or less of Initial Specified Value		
	Leakage Current	Initial Specified Value or less		
Standards 參照標準	JIS C 5101-4-1 (IEC 60384)			

## Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Frequency (Hz)				
	50	120	300	1K	≥10K
350 ~ 450	0.80	1.00	1.20	1.30	1.40

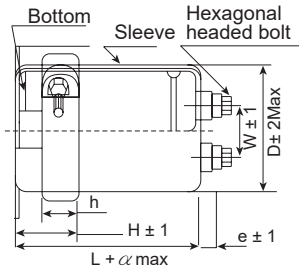
The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 10°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

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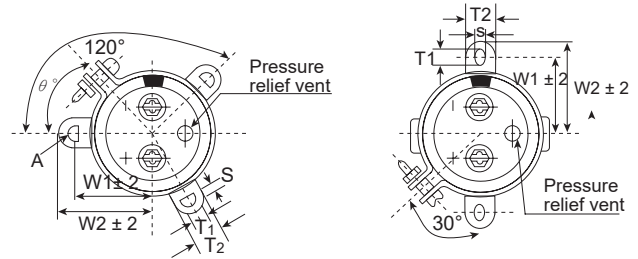
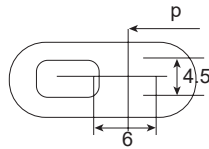
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## DIMENSIONS(mm)

Screw terminal type for  $\phi 51$  and larger

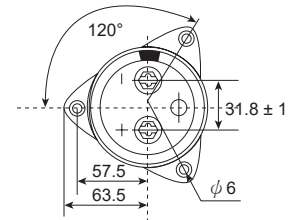
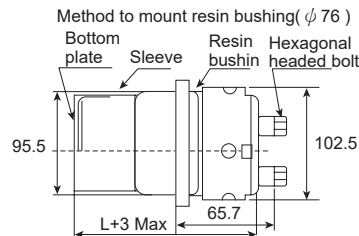
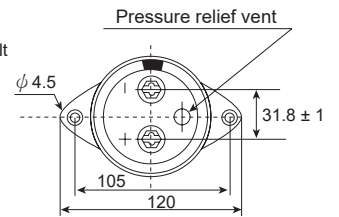
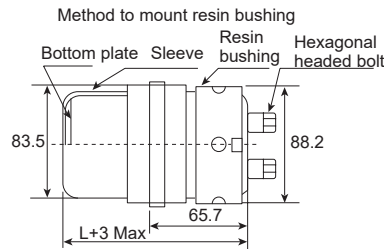


3-leg brackets for  $\phi 90$  capacitors have different hote shapes from the ordinary ones as illustrated below.



## TERMINAL PITCH(W) & LENGTH (e) TABLE

$\phi D$	W	e	$\alpha$
51	22	6	3
64	28.6	6	3
76	31.8	6	3
90	31.8	6	3
100	41.5	10	4



## DIMENSIONS OF MOUNTING BRACKET

Cap ( $\mu F$ )	Leg shape	3-Legs					2-Legs				
		$\phi D$	$\phi 51$	$\phi 64$	$\phi 76$	$\phi 90$	$\phi 100$	$\phi 51$	$\phi 64$	$\phi 76$	$\phi 90$
	$W_1$		32.5	38	44.5	50.8	56.3	33.2	40.5	46.5	53
	$W_2$		38.5	43	49.2	57	62	40	46.5	53	59
	$T_1$		7.5	8.0	7.0	7.0	8.0	6.0	6.0	6.0	6.0
	$T_2$		12	14	14	16	16	14	14	14	14
	S		5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.5	4.5
	$\theta^\circ$		60	60	60	60	60	30	30	30	30
	H		20	25	30	35	36	25	35	35	35
	h		15	20	24	20	30	15	20	20	20

## STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 85°C 120Hz

Cap ( $\mu F$ )	V	350		400		450		
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.
1000			51x85	5.5	51x85	5.0	51x85	5.0
1200			51x85	5.5	51x85	5.5	51x95	6.0
1500			51x85	6.1	51x95	6.7	51x115	7.2
1800			51x95	7.4	51x95	7.4	51x130	8.3
2200			51x95	8.2	51x130	9.2	64x95	9.0
2700			51x130	10.2	64x95	9.9	64x115	10.7
3300			51x130	11.3	64x115	11.8	64x130	12.4
3900			64x115	12.8	64x130	13.5	76x115	13.6
4700			64x130	14.8	76x115	14.9	76x130	15.6
5600			76x115	16.3	76x130	17.0	76x155	18.3
6800			76x130	18.8	76x155	20.2	90x155	21.4
8200			76x155	22.1	90x155	23.5	90x155	23.5
10000			90x155	25.9	90x155	25.9	90x195	28.3
12000			90x155	28.4	90x195	31.0		
15000			90x195	34.6				

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