

LSU SERIES

Load Life : 85°C 5000 hours

RoHS compliance



◆SPECIFICATIONS

Items	Characteristics															
Category Temperature Range	-25~+85°C															
Rated Voltage Range	350~580Vdc															
Capacitance Tolerance	±20% (20°C, 120Hz)															
Leakage Current(MAX)	$I=3\sqrt{CV}$ or 5mA whichever is smaller. (After 5 minutes application of rated voltage) $I$ =Leakage Current(µA) $C$ =Capacitance(µF) $V$ =Rated Voltage(Vdc)															
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th>Vdc \ φD</th> <th>51</th> <th>64</th> <th>77</th> <th>90</th> </tr> </thead> <tbody> <tr> <td>350~450</td> <td>0.20</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>500~580</td> <td>0.25</td> <td>0.30</td> <td>0.30</td> <td>0.30</td> </tr> </tbody> </table> (20°C, 120Hz)	Vdc \ φD	51	64	77	90	350~450	0.20	0.25	0.25	0.25	500~580	0.25	0.30	0.30	0.30
Vdc \ φD	51	64	77	90												
350~450	0.20	0.25	0.25	0.25												
500~580	0.25	0.30	0.30	0.30												
Endurance	After applying rated voltage with rated ripple current for 5000 hours (580Vdc:3000 hours), at 85°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table>	Capacitance Change	Within ±20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.									
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Dissipation Factor	Not more than 200% of the specified value.															
Leakage Current	Not more than the specified value.															

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		60 (50)	120 (100)	300	500	1k	10k ≤
Coefficient	350~450Vdc	0.80	1.00	1.17	1.23	1.30	1.40
	500~580Vdc	0.80	1.00	1.15	1.20	1.25	1.30

◆PART NUMBER

□□□
LSU
□□□□□
M
□□□
□□
DXL  
 Rated Voltage      Series      Capacitance      Capacitance Tolerance      Option      Clamp Code      Case Size

◆DIMENSIONS

(I type)

(Y type)

(mm)

	φD	W1	W2	W3	W4	W5	F
I type	51	34.0	40.0	3.5	6.0	12	21.8
	64	40.0	45.0	4.5	7.0	12	28.2
	77	47.0	53.0	4.5	6.0	12	31.4
Y type	51	32.5	37.5	4.5	6.0	12	21.8
	64	38.0	43.0	4.5	8.0	14	28.2
	77	44.5	49.0	4.5	7.0	14	31.4
90	50.8	56.0	4.5	8.0	16	31.4	

**◆STANDARD SIZE**

Rated Voltage (Vdc)	Capacitance (uF)	Size φDXL (mm)	Ripple Current (A.r.m.s 85°C,120Hz)
350	1800	51×98	7.8
	2200	51×118	8.7
	2700	51×138	9.8
	3300	51×148	10.8
	3900	64×119	12.9
	4700	64×139	14.3
	5600	77×121	17.8
	6800	64×189	17.7
	6800	77×141	19.8
	8200	77×151	21.8
	8200	90×121	25.8
	10000	77×191	24.6
	10000	90×141	28.8
	12000	90×191	30.6
	15000	90×191	36.2
	18000	90×221	40.1
400	1500	51×98	6.9
	1800	51×118	7.7
	2200	51×138	8.6
	2700	51×148	9.5
	3300	64×119	11.5
	3900	64×139	12.7
	4700	64×149	13.8
	4700	77×121	15.8
	5600	64×189	15.4
	5600	77×141	17.5
	6800	77×151	19.2
	6800	90×121	22.9
	8200	77×191	21.4
	8200	90×141	25.4
	10000	90×151	27.9
	12000	90×191	31.5
15000	90×221	35.8	
18000	90×241	38.9	
450	1200	51×98	6.5
	1500	51×118	7.4
	1800	51×138	8.3
	2200	64×119	10.1
	2700	64×139	11.3
	3300	64×149	12.5
	3900	77×121	15.3
	4700	77×141	17.0
	4700	90×121	18.1
	5600	77×151	17.4
	6800	77×191	19.2
	6800	90×141	21.0
	8200	90×191	25.1
	10000	90×221	27.9
	12000	90×241	30.0

Rated Voltage (Vdc)	Capacitance (uF)	Size φDXL (mm)	Ripple Current (A.r.m.s 85°C,120Hz)
500	1200	51×98	5.6
	1500	51×118	6.3
	1800	51×148	7.1
	2200	64×119	8.5
	2700	64×139	9.6
	3300	64×149	10.5
	3900	77×131	13.3
	4700	77×151	14.8
	4700	90×121	17.8
	5600	90×131	19.5
	6800	77×191	18.1
	6800	90×151	21.7
	8200	90×191	24.5
	10000	90×221	27.4
	12000	90×241	30.1
	550	1800	64×119
2200		64×139	6.8
2700		64×149	7.5
3300		77×131	9.4
3900		77×151	10.4
4700		77×171	11.5
4700		90×131	13.6
5600		77×191	12.7
5600		90×151	15.2
6800		90×191	17.3
8200		90×221	19.4
10000	90×241	21.6	
580	1500	64×119	5.6
	1800	64×139	6.3
	2200	64×149	7.1
	2700	77×131	8.8
	3300	77×151	9.9
	3900	77×171	11.0
	3900	90×131	12.9
	4700	77×191	12.2
	4700	90×151	14.5
	5600	90×191	16.3
	6800	90×221	18.4
8200	90×241	20.4	

**◆Tightening torque of bolt and Permissible current of terminal**

Clamp Bolt	Recommended Tightening torque
M3	0.6 [N·m]
M4	1.3 [N·m]

Terminal	Recommended Tightening torque (Permissible Range)	Permissible Current of Terminal
M5	2.2(1.5~3.2) [N·m]	60 [A r.m.s.]

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