

FTP Series

- Ideal for inverter smoothing capacitors such as Electric Vehicle, Hybrid Car, etc.
- Endurance with ripple current : 85°C 5000 hours
- Rated voltage range : 63 to 450V_{dc}
- Lower profile offers drastic space saving comparing to conventional cylindrical type
- Superior heat radiation realizes higher ripple current



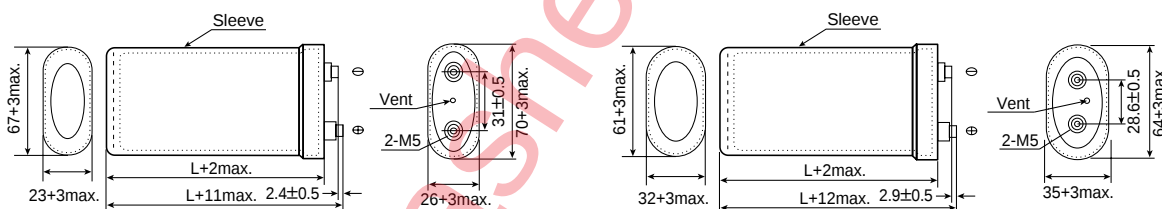
SPECIFICATIONS

Items	Characteristics						
Category							
Temperature Range	-40 to +85°C (63~100V _{dc}), -25 to +85°C (350~450V _{dc})						
Rated Voltage Range	63 to 450V _{dc}						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)						
Dissipation Factor (tanδ)	0.25 max. (at 20°C, 120Hz)						
Low Temperature Characteristics	Capacitance change 63 to 100V _{dc} : C(-40°C)/C(+20°C)≥0.6 350 to 450V _{dc} : C(-25°C)/C(+20°C)≥0.7 (at 120Hz)						
Endurance	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 5000 hours at 85°C. <table border="1"> <tr> <td>Capacitance change</td><td>≤±20% of the initial value</td></tr> <tr> <td>D.F. (tanδ)</td><td>≤200% of the initial specified value</td></tr> <tr> <td>Leakage current</td><td>≤The initial specified value</td></tr> </table>	Capacitance change	≤±20% of the initial value	D.F. (tanδ)	≤200% of the initial specified value	Leakage current	≤The initial specified value
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D.F. (tanδ)	≤200% of the initial specified value						
Leakage current	≤The initial specified value						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 85°C without voltage applied. <table border="1"> <tr> <td>Capacitance change</td><td>≤±20% of the initial value</td></tr> <tr> <td>D.F. (tanδ)</td><td>≤200% of the initial specified value</td></tr> <tr> <td>Leakage current</td><td>≤The initial specified value</td></tr> </table>	Capacitance change	≤±20% of the initial value	D.F. (tanδ)	≤200% of the initial specified value	Leakage current	≤The initial specified value
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DIMENSIONS (Terminal Type=LGSN) [mm]

●26×70 size

●35×64 size

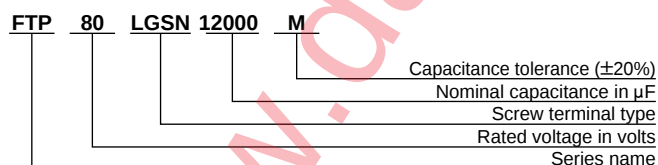


<Screw specifications>

Plus hexagon-headed screw: M5×0.8

Maximum screw tightening torque: 3.23Nm

PART NUMBERING SYSTEM



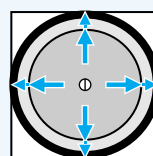
◆STANDARD RATINGS

Case size S.Dia×L.Dia×L(mm)	Vdc	63		80		100	
	SV	79		100		125	
	Items	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 10kHz	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 10kHz	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 10kHz
26×70×50		6,000	14.0	4,300	14.0	2,900	14.0
26×70×75		12,000	19.0	8,600	19.0	5,700	19.0
26×70×95		17,000	22.0	12,000	22.0	8,100	22.0
35×64×50		7,400	16.1	5,300	16.1	3,600	16.1
35×64×75		15,000	21.7	10,000	21.7	7,100	21.7
35×64×95		21,000	25.3	15,000	25.3	10,000	25.3

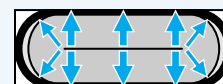
Case size S.Dia×L.Dia×L(mm)	Vdc	350		400		450	
	SV	400		450		500	
	Items	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 10kHz	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 10kHz	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 10kHz
26×70×50		400	10.6	330	10.6	270	10.1
26×70×75		800	15.7	660	15.7	540	15.0
26×70×95		1,100	18.7	930	18.7	760	18.0
35×64×50		490	11.9	400	11.9	330	11.4
35×64×75		970	17.6	800	17.6	660	16.7
35×64×95		1,400	21.0	1,100	21.0	930	20.1

◆Improvement of space factor and heat radiation

Dead spaces are found for the conventional cylindrical shape. But lower profile offers small dead spaces, and makes the equipments smaller in size. Moreover, the internal element of the lower profile capacitor is widely touched to the can. This largely improves the heat radiation compared to the cylindrical shape.



Cylindrical shape



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