

RWY Series

- High ripple capability
- Endurance with ripple current : 85°C 5000 hours
- Cost-down design for three-phase input inverters

RWY

low price version

RWF



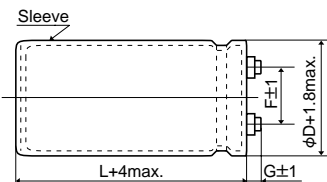
◆ SPECIFICATIONS

Items	Characteristics						
Category							
Temperature Range	-25 to +85°C						
Rated Voltage Range	350 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)	0.12 max. (at 20°C, 120Hz)						
Low Temperature Characteristics	Capacitance change $C(-25°C)/C(+20°C) \geq 0.7$ (at 120Hz)						
Insulation Resistance	When it is measured between the terminals shorted each other and the mounting clamp on the insulating sleeve covering the case by using an insulation resistance meter of 500V _{dc} , the insulation resistance shall not be less than 100MΩ.						
Insulation Withstanding Voltage	When a voltage of 2000V _{ac} is applied for 1 minute between the terminals shorted each other and the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.						
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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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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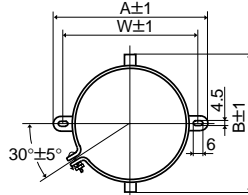
◆ DIMENSIONS (Terminal Type=LGSN) [mm]

● B Type of Mounting Clamp

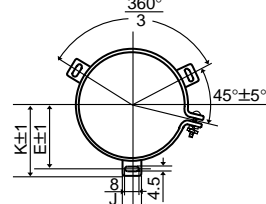
● C Type of Mounting Clamp



φ50 to φ76 : G=6
φ89 : G=4
φ100 : G=10



φD	A	B	W	F
50	78	64	68	22.4
63.5	90	76	80	28.0
76	104.5	90	93.5	31.5



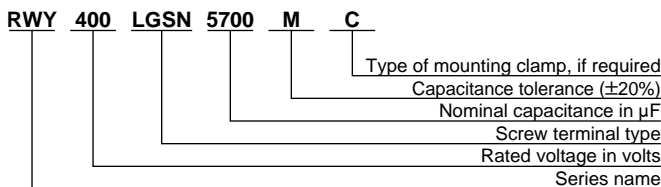
φD	E	K	F	J
63.5	38.1	43.5	28.0	14.0
76	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0
100	56.5	63.4	41.5	18.0

<Screw specifications>

- φ50 to φ89
- Plus hexagon-headed screw : M5×0.8×10
- Maximum screw tightening torque : 3.23Nm
- φ100
- Cross-recessed head (Phillips) screw : M8×1.25×16
- Spring washer
- Washer
- Maximum screw tightening torque : 6.31Nm

* The screw and the mounting clamp are separately supplied and not attached to the product.

◆ PART NUMBERING SYSTEM



◆STANDARD RATINGS

Case size φD×L (mm)	V _{dc}		400		450	
	SV		450		500	
	Items	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 300Hz	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 300Hz	Capacitance (μF) 20°C, 120Hz
50×75	750	5.1	620	4.6	500	4.0
50×96	1,100	6.9	880	6.1	710	5.2
50×105	1,300	7.8	1,000	6.8	840	5.9
50×130	1,600	9.5	1,400	8.9	1,100	7.5
50×145	1,900	10.7	1,600	9.9	1,300	8.4
63.5×96	1,800	10.0	1,500	9.1	1,200	7.8
63.5×115	2,400	12.6	2,000	11.5	1,600	9.8
63.5×130	2,800	14.3	2,300	13.0	1,800	10.9
63.5×155	3,400	17.1	2,800	15.5	2,300	13.3
63.5×170	3,800	18.8	3,200	17.3	2,500	14.5
76×115	3,500	16.9	2,900	15.4	2,300	13.0
76×130	4,000	19.0	3,400	17.5	2,700	14.8
76×155	5,000	23.0	4,200	21.1	3,300	17.7
76×170	5,600	25.3	4,600	23.0	3,700	19.5
89×155	6,900	27.2	5,700	24.7	4,600	22.2
89×170	7,700	29.6	6,400	27.0	5,100	24.1
89×190	8,400	32.9	7,000	30.0	5,700	27.1
100×190	9,500	37.3	7,900	34.0	6,400	30.6
100×220	11,000	42.9	9,400	39.6	7,600	35.6
100×270	14,000	53.1	12,000	49.2	9,500	43.7

◆RATED RIPPLE CURRENT MULTIPLIERS
●Frequency Multipliers

Frequency (Hz)	120	300	1k	3k
Coefficient	0.83	1.0	1.25	1.33

Note : The endurance of capacitors is shorted with internal heating produced by ripple currents at the rate of halving the lifetime with every 5 to 10°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced. Also, for RWY series capacitors, using them at operating voltage less than their rated voltage can extend their lifetime. For the details, please contact a representative of Nippon Chemi-Con.