

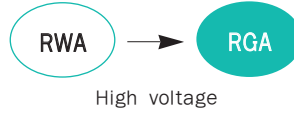


LARGE SIZED ALUMINUM ELECTROLYTIC CAPACITORS

RGA Series

• 85°C 2,000Hrs assured.

- Non-solvent proof.
- For inverter.
- Rated voltage range: 500 to 600V_{DC}
- For UPS, Industrial Inverter.
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	500 ~ 600 V _{DC}
Operating Temperature Range	-25 ~ +85°C
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 _{DC}) (at 20°C, 5 minutes)
Dissipation Factor (Tanδ)	0.25max. (at 20°C, 120Hz)
Temperature Characteristics (Capacitance change ratio)	C(-25°C)/C(20°C) ≥ 0.6 (at 120Hz)
Insulation Withstanding Voltage	When a voltage of 2,000V _{AC} is applied for one minute between the terminals shorted each other and the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.
Load Life	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 2,000 hours at 85°C. Capacitance change ≤ ±20% of the initial value Tanδ ≤ 300% 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 at 85°C for 500 hours without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurement. Capacitance change ≤ ±20% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value
Others	Satisfied characteristics W of KS C 6421

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipling Factor

Frequency(Hz)	60	120	300	1k	3k
Factor	0.8	1.0	1.1	1.3	1.4

DIMENSIONS OF RGA Series

Unit(mm)

Marking: BLACK SLEEVE, GOLD INK.

(Screw specifications)

- Plus hexagon-headed screw: M5×0.8×12
- Maximum screw tightening torque: 3.23N·m (33kg·cm)

B type mounting clamp

∅D	A	B	W	H	F
35	58	44	48	3.5	12.7
50	78	64	68	4.5	22.4
63.5	90	76	80	4.5	28.0
76.5	104.5	90	93.5	4.5	31.5

C type mounting clamp

∅D	E	K	J	F
50	32.5	37.0	14	22.4
63.5	38.1	43.5	14	28.0
76.5	44.5	50.0	14	31.5
89	50.8	56.5	16	31.5

RATINGS OF RGA Series

μF \ VDC ∅ D	500 (2H)					550 (2L)				
	35	50	63.5	76.5	89	35	50	63.5	76.5	89
100						35 × 50 0.6				
120	35 × 50 0.7									
180						35 × 80 1.0				
270	35 × 80 1.2					35 × 100 1.3				
330	35 × 100 1.4					35 × 120 1.6				
390	35 × 120 1.7						50 × 75 1.7			
470		50 × 75 1.8								
560							50 × 95 2.1	63.5 × 95 2.5		
680		50 × 90 2.5					50 × 115 2.7	63.5 × 120 3.0		
820		50 × 120 2.9					50 × 130 3.1	63.5 × 130 3.5		
1,000		50 × 130 3.4	63.5 × 95 3.4							
1,200									76.5 × 95 4.2	
1,500			63.5 × 120 4.5	76.5 × 95 4.6					76.5 × 120 5.0	
1,800			63.5 × 130 5.2						76.5 × 130 5.8	
2,200				76.5 × 120 6.1					76.5 × 150 7.0	
2,700				76.5 × 160 7.7						
3,300										89 × 160 9.3
3,900					89 × 160 10.1					

μF \ VDC ∅ D	600(2M)				
	35	50	63.5	76.5	89
180	35 × 100 1.1				
270	35 × 120 1.4				
330		50 × 75 1.7			
390		50 × 95 1.8	63.5 × 95 2.1		
560		50 × 115 2.2	63.5 × 115 2.6		
680		50 × 130 2.9	63.5 × 130 3.2		
820				76.5 × 95 3.3	
1,200				76.5 × 115 4.4	
1,500				76.5 × 130 5.4	
1,800				76.5 × 150 6.5	
2,200					89 × 130 7.8
2,700					89 × 155 8.9

← Case Size ∅D × L(mm)
← Rated Ripple Current(Arms/85°C, 120Hz)

Note: When long life performance is required in actual use, the rms ripple current has to be reduced.