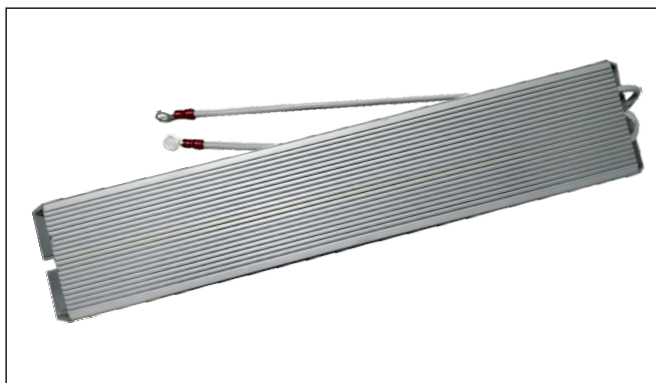




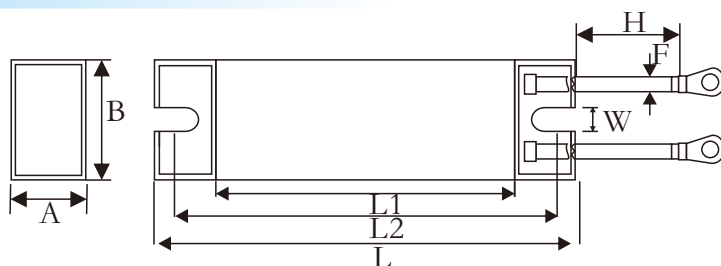
● Feature

The RXLG series aluminum-cased wirewound resistors adopt aluminum alloy housings with a neat appearance. Compared with conventional ceramic bobbin resistors, they feature good weather resistance, vibration resistance and higher safety. As power wirewound resistors, they are encapsulated with high-temperature resistant silicone resin and silicon powder. They allow compact installation and easy assembly of heat sinks.

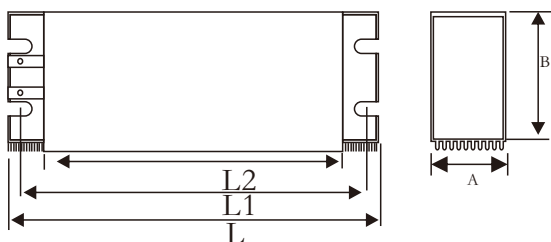
● Application

1. Used as braking resistors to safeguard inverters, servos and other equipment against damage caused by motor regenerative energy.
2. Serve as resistive loads for power-electronic load testing.
3. Apply as sampling resistors, current-limiting resistors, starting resistors and protective resistors within power electronic devices.

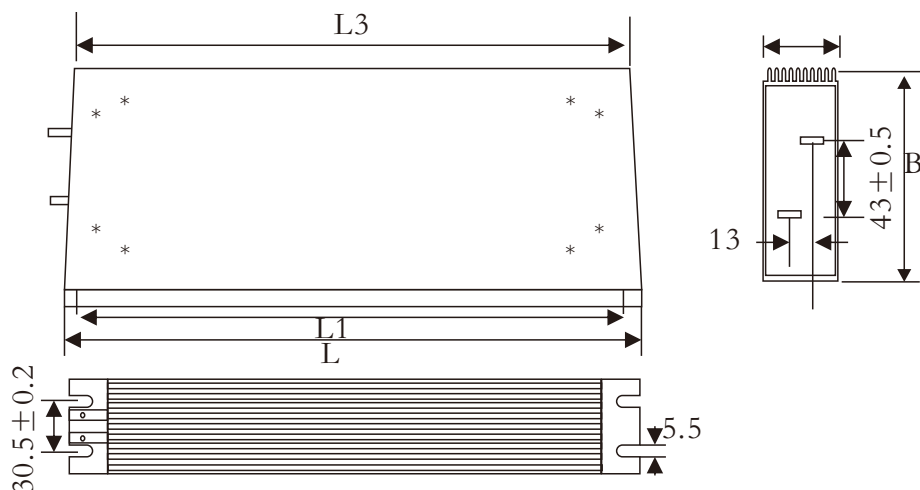
● Dimensions



Type	Power (W)	Dimensions(mm)						F (mm ²)	H ± 10 (mm)	Terminal connection (mm)
		L ± 2	L1 ± 2	L2 ± 2	A ± 1	B ± 1	W			
RXLG-A	40	95	65	84	20	40	4.2	1.5	250	2-5S
RXLG-A	60	115	84	98	20	40	5.6	1.5	250	2-5S
RXLG-A	80	140	109	123	20	40	5.6	1.5	250	2-5S
RXLG-A	100	165	134	148	20	40	5.6	1.5	250	2-5S
RXLG-A	120	190	159	173	20	40	5.6	2.5	250	2-5S
RXLG-A	150	215	184	198	30	40	5.6	2.5	250	2-5S
RXLG-A	200	165	119	147	30	60	5.6	2.5	250	2-5S
RXLG-A	300	215	169	197	30	60	5.6	2.5	250	2-5S
RXLG-A	400	265	219	247	30	60	5.6	2.5	250	2-5S
RXLG-A	500	335	289	317	30	60	5.6	2.5	250	2-5S



Type	Power (W)	Dimensions(mm)				
		L ± 2	L1 ± 2	L2 ± 2	A ± 1	B ± 1
RXLG-B	800	350	334	309	50	107
RXLG-B	1000	400	384	359	50	107
RXLG-B	1200	450	434	409	50	107
RXLG-B	1500	485	469	444	50	107
RXLG-B	1800	500	484	459	50	107
RXLG-B	2000	550	534	509	50	107



Type	Power (W)	Dimensions(mm)				
		L±2	L1±2	L2±2	A±1	B±1
RXLG-C	800	350	334	309	50	107
RXLG-C	1000	400	384	359	50	107
RXLG-C	1200	450	434	409	50	107
RXLG-C	1500	485	469	444	50	107
RXLG-C	1800	500	484	459	50	107
RXLG-C	2000	550	534	509	50	107

● Applicable Standards

IEC 60115-1-2008; GB/T5729-1994

● Ordering Information

Example:

RXLG 300 J 10R0
 (1) (2) (3) (4)
 Series Name Power Rating Resistance Tolerance Resistance

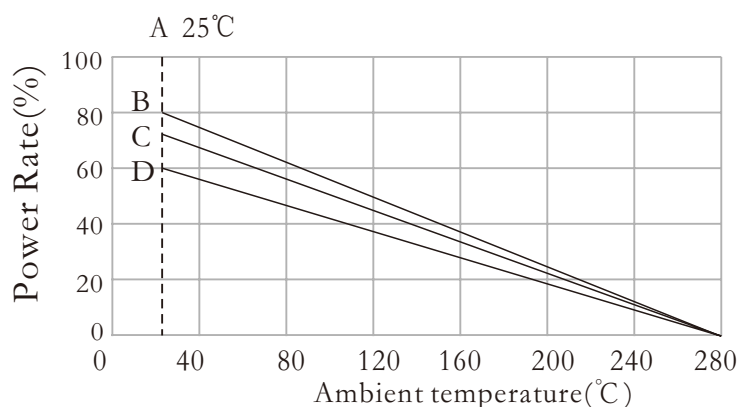
(1) Type: RXLG-A、RXLG-B、RXLG-C SERIES

(2) Power Rating: 40=40W、60=60W、100=100W、300=300W、800=800W。。。。

(3) Tolerance: J=±5%

(4) Resistance Value: R100=0.1Ω, 1R00=1Ω, 10R0=10Ω, 1000=100Ω, 1001=1KΩ

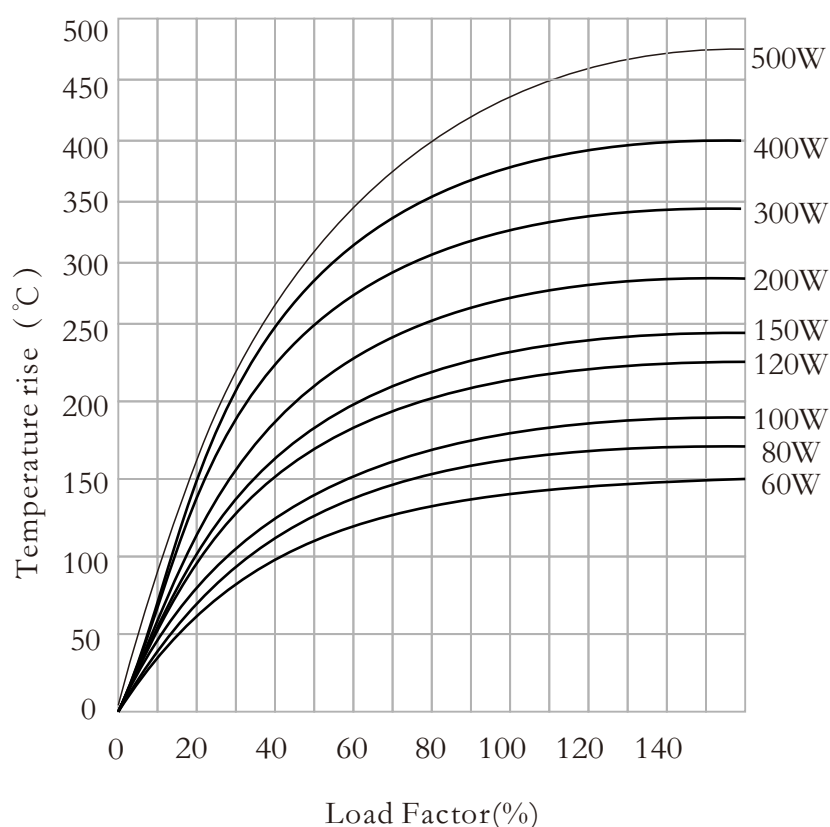
● Derating Curve



Heat sink area
 40W-150W=200*200*3mm
 200~500W=400*400*3mm

A: Power reduction curve with heat sink installed
 B: Power reduction curve without heat sink (40W-150W)
 C: Power reduction curve without heat sink (200W-300W)
 D: Power reduction curve without heat sink (400W-500W)

● Surface Temperature Rise



● Power And Resistance etc

Type	Power (W)	Resistance Range(Ω)	Tolerance	T.C.R PPM/ $^{\circ}\text{C}$	Max Working Voltage (V)	Max Overload Voltage (V)	Dielectric Withstanding Voltage (V)
RXLG-A	40	1~100K	$J \pm 5\%$ $K \pm 10\%$	$\pm 300\text{ppm}/^{\circ}\text{C}$	$\sqrt{P R}$	$2.5\sqrt{P R}$	2.5KV
RXLG-A	60						
RXLG-A	80						
RXLG-A	100						
RXLG-A	120						
RXLG-A	150						
RXLG-A	200						
RXLG-A	300						
RXLG-A	400						
RXLG-A	500						
RXLG-B/C	800	1~100K	$J \pm 5\%$ $K \pm 10\%$	$\pm 300\text{ppm}/^{\circ}\text{C}$	$\sqrt{P R}$	$2.5\sqrt{P R}$	2.5KV
RXLG-B/C	1000						
RXLG-B/C	1200						
RXLG-B/C	1500						
RXLG-B/C	2000						

● Performance

Tolerance:	$\pm 5\%$ (J) , $\pm 10\%$ (K)
T C E:	$R > 20\Omega$, $\pm 260\text{ppm}/^{\circ}\text{C}$; $R \leq 20\Omega$, $\pm 300\text{ppm}/^{\circ}\text{C}$ tested at $-25\sim 200^{\circ}\text{C}$ temperature
Rated load:	Maximum surface temperature: $\leq 375^{\circ}\text{C}$ when placed on a $400*400*3\text{mm}$ aluminum plate
Short-term overload:	No visible damage, $\Delta R \leq \pm (2\%R + 0.05\Omega)$ for 10 times 5s
Insulation resistance:	$R \geq 100\text{M}\Omega$ 1min DC 1000V
Voltage withstand test:	No visible damage, no arc burn-through $\Delta R \leq \pm (0.1\%R + 0.05)$ AC 3000V 5S
Terminal strength:	No looseness or abnormalities. Apply a 100N force in the direction of the weld tab for 30 seconds.
vibration resistance test	No visible damage, $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$ f: 5-200Hz a=1g X.Y.Z each for 2h
Heat Resistance:	No obvious discoloration or damage, except for the terminals, and the markings are clear. Heat to $350 \pm 5^{\circ}\text{C}$ for 120 ± 5 minutes.
Thermal shock:	$\Delta R \leq \pm (2\%R + 0.05\Omega)$. Under rated voltage for 30 minutes at normal temperature, place in $-40 \pm 2^{\circ}\text{C}$ environment for 8-12 seconds, then 15+5 minutes, followed by 2 hours at normal temperature, no abnormality occurs.
Resistance to Moisture:	No visible damage, clear markings, $\Delta R \leq \pm (3\%R + 0.05\Omega)$, insulation resistance $\geq 25\text{M}\Omega$ (DC voltage 100V), $40 \pm 2^{\circ}\text{C}$, relative humidity 90-95%, 60 minutes on, 30 minutes off, sustained for 500+24 hours
Load life	No visible external damage, clear markings, $\Delta R \leq \pm (5\%R + 0.05\Omega)$, placed on a $400*400*3\text{mm}$ aluminum plate at $20 \pm 7^{\circ}\text{C}$, rated DC voltage, 90 minutes on, 30 minutes off, cycled 500+24 hours