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Power Transformers / Harmonic Filter / Sine Wave Filter / EMC Filter/  
Reactor / Regenerative Brake / Braking Chopper / Power Braking Resistor/  
Load test for generator, electric vehicle driver, motor controller, charging  
station etc.

## Aluminum Housed Resistor

Whole product portfolios of power braking solution can be offered.



We are developing and producing in China for the world.



GUANGDONG SIKES Electric Co.,Ltd.

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18 YEARS OF  
SUCCESS

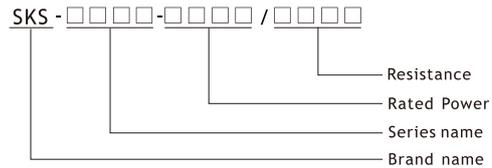
## Aluminum Housed Resistor

### Descriptions

Spiral wire wound based on ceramic tubes with aluminum enclosure.



Model Rules:



### Product Features

- Suitable for harsh environment;
- Aluminum enclosure with better protection ;
- Safer compared with open type wire wound resistor ;
- Long working life and high reliability ;
- Flexible for customize , can offer IP65 class protection ;
- High insulation class , use high Flame retardant inorganic material to assemble ;
- Excellent anti-vibration capability ;



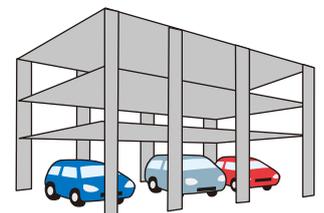
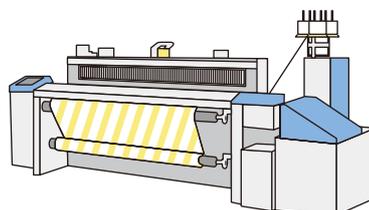
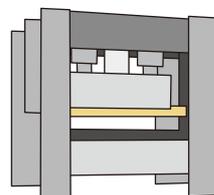
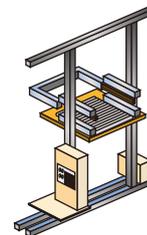
### Material Specifications

|                    |                                   |
|--------------------|-----------------------------------|
| Element            | Copper-nickel,nickel-chrome       |
| Core               | OCr25AL5                          |
| Enclosure          | Aluminum                          |
| Standard terminals | Copper / Copper bar               |
| Partmarking        | Partnumber, value, date code, MRC |



### Applications:

- Dynamic braking
- Motor Control
- Load Banks
- VFD/VSD/Servo Motor
- Cranes ,Hoists & Winches
- Conveyors
- Lifts & elevators
- Industrial robot control
- CNC
- Packing machine
- Printing



## Technical Specifications

|                         |                         |
|-------------------------|-------------------------|
| Power Range             | 60W~10KW                |
| Voltage Range           | <1.2KV                  |
| Resistance Range        | 1R~10KR                 |
| Dielectric Strength     | AC 3KV 50Hz / 5S        |
| IP Protection           | IP 21(others onrequest) |
| Vibration               | 1.5g                    |
| Temperature Coefficient | ≤400ppm/°C              |
| Production Standards    | GB8898-2011             |

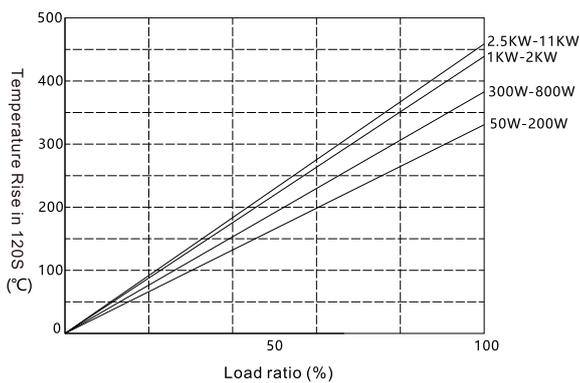
## Electrical Schematic



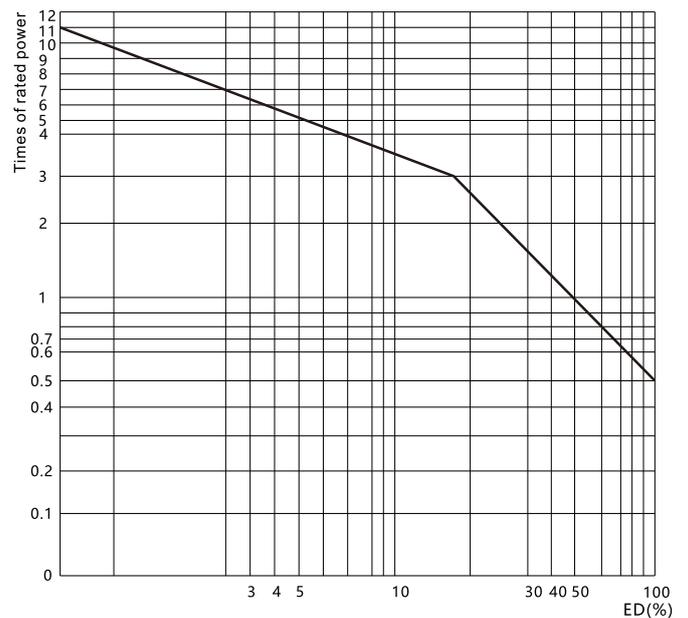
## Performance Test

| Test Item            | Test Condition   | Performance                             |
|----------------------|--|---|
| TCR                  | Test resistance changing rate per degree vary +30°C~+100°C   | ±400PPM/°C                              |
| Short time overload  | With 10 times rated power or max working voltage(lower value) for 5s   | $\Delta R \leq \pm (2\%R + 0.05\Omega)$ |
| Sn-heat              | In the sn-tin of 350 ± 10°C for 2~3s   | $\Delta R \leq \pm (1\%R + 0.05\Omega)$ |
| Solderability        | In the Sn-tin of 245 ± 10°C for 2~3s   |   |
| Temperature cycle    | Under the 5 cycles of the -55°C for 30 min, 125°C for 10~15 min, and the 25°C for 10~15 min  | $\Delta R \leq \pm (1\%R + 0.05\Omega)$ |
| Aging of Humidity    | In the box of 40±2°C and 90-95% humidity, with rated voltage or Max Working Voltage(Lower Value), total time 1000 hours(ON-1.5H, OFF-0.5H) | $\Delta R \leq \pm (5\%R + 0.05\Omega)$ |
| Aging at Rated power | In the 70±2°C test box, With the rated power or max working voltage(Lower value), total 1000hours(ON-1.5H, OFF-0.5H)                       | $\Delta R \leq \pm (5\%R + 0.05\Omega)$ |
| Inflammability       | With the 5/10 times rated power for 5S   | No obvious flame                        |

## Surface Temperature Rise

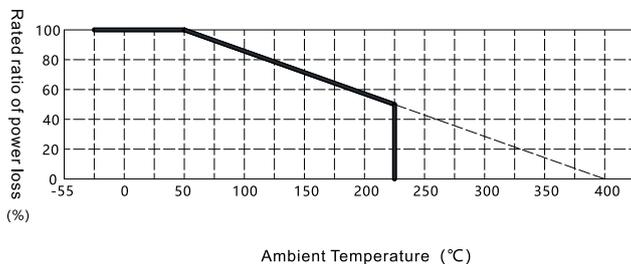


## Overload capability and ED



Brake in cycle, time cycle: maximum 120S.

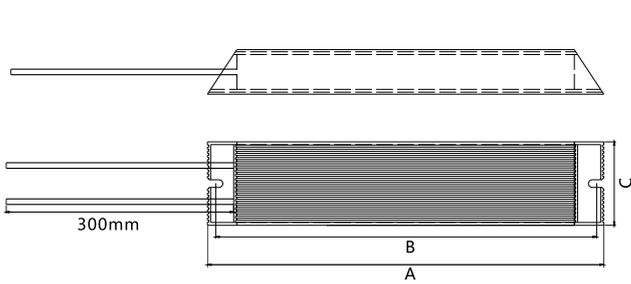
## Derating Curve



## Selection Table

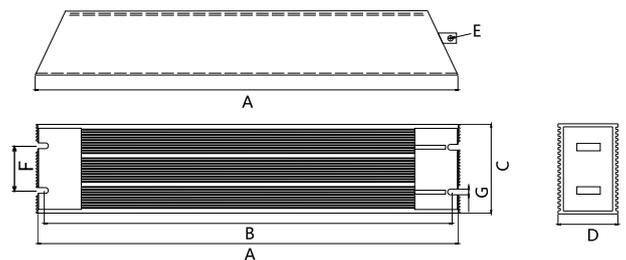
| Type | Rated Power (w) | Picture NO. | Dimension(mm) |     |     |    |    |     |      | Lead length (mm) | Weight (KG) | Resistance Range (Ω) |
|------|-----------------|-------------|---------------|-----|-----|----|----|-----|------|------------------|-------------|----------------------|
|      |                 |             | A             | B   | C   | D  | E  | F   | G    |                  |             |                      |
| RXLG | 60              | A           | 110           | 95  | 40  | 20 | 5  | /   | /    | 300              | 0.19        | 1Ω-1KΩ               |
| RXLG | 80              |             | 110           | 95  | 40  | 20 | 5  | /   | /    | 300              | 0.19        | 1Ω-1KΩ               |
| RXLG | 100             |             | 140           | 125 | 40  | 20 | 5  | /   | /    | 300              | 0.19        | 1Ω-1KΩ               |
| RXLG | 120             |             | 140           | 125 | 40  | 20 | 5  | /   | /    | 300              | 0.21        | 1Ω-10KΩ              |
| RXLG | 150             |             | 180           | 165 | 40  | 20 | 5  | /   | /    | 300              | 0.24        | 1Ω-10KΩ              |
| RXLG | 200             |             | 170           | 160 | 60  | 30 | 5  | /   | /    | 300              | 0.5         | 1Ω-10KΩ              |
| RXLG | 300             |             | 220           | 210 | 60  | 30 | 5  | /   | /    | 300              | 0.5         | 1Ω-10KΩ              |
| RXLG | 400             |             | 220           | 210 | 60  | 30 | 5  | /   | /    | 300              | 0.53        | 1Ω-10KΩ              |
| RXLG | 500             |             | 240           | 225 | 60  | 30 | 5  | /   | /    | 300              | 0.78        | 1Ω-10KΩ              |
| RXLG | 600             |             | 240           | 225 | 60  | 30 | 5  | /   | /    | 300              | 0.78        | 1Ω-10KΩ              |
| RXLG | 800             |             | 340           | 325 | 60  | 30 | 5  | /   | /    | 300              | 0.96        | 1Ω-10KΩ              |
| RXLG | 1000            |             | 400           | 390 | 60  | 30 | 5  | /   | /    | 300              | 1.35        | 5Ω-10KΩ              |
| RXLG | 1200            |             | 400           | 390 | 60  | 30 | 5  | /   | /    | 300              | 1.35        | 5Ω-10KΩ              |
| RXLG | 1500            |             | B             | 400 | 390 | 85 | 55 | 5   | 30   | 5.5              | 300         | 3                    |
| RXLG | 2000            | 400         |               | 390 | 85  | 55 | 5  | 30  | 5.5  | 300              | 3           | 5Ω-10KΩ              |
| RXLG | 2500            | 400         |               | 390 | 85  | 55 | 5  | 30  | 5.5  | 300              | 3           | 5Ω-10KΩ              |
| RXLG | 3000            | 450         |               | 440 | 85  | 55 | 5  | 30  | 5.5  | 300              | 4.2         | 5Ω-10KΩ              |
| RXLG | 3500            | 450         |               | 440 | 85  | 55 | 5  | 30  | 5.5  | 300              | 4.2         | 5Ω-10KΩ              |
| RXLG | 4000            | 550         |               | 540 | 85  | 55 | 5  | 30  | 5.5  | 300              | 5           | 0.5Ω-2.2KΩ           |
| RXLG | 5000            | C/D         | 400           | 380 | 200 | 50 | 5  | 118 | 6×10 | 300              | 7.1         | 0.5Ω-2KΩ             |
| RXLG | 5500            |             | 400           | 380 | 200 | 50 | 5  | 118 | 6×10 | 300              | 7.1         | 0.5Ω-2KΩ             |
| RXLG | 6000            |             | 450           | 430 | 200 | 50 | 5  | 118 | 6×10 | 300              | 7.5         | 0.5Ω-2KΩ             |
| RXLG | 6500            |             | 450           | 430 | 200 | 50 | 5  | 118 | 6×10 | 300              | 7.5         | 0.5Ω-2KΩ             |
| RXLG | 7000            |             | 550           | 530 | 200 | 50 | 5  | 118 | 6×10 | 300              | 10.5        | 0.5Ω-3.5KΩ           |
| RXLG | 7500            |             | 550           | 530 | 200 | 50 | 5  | 118 | 6×10 | 300              | 10.5        | 0.5Ω-3.5KΩ           |
| RXLG | 8000            |             | 650           | 630 | 200 | 50 | 5  | 118 | 6×10 | 300              | 12.5        | 0.5Ω-3KΩ             |
| RXLG | 9000            |             | 650           | 630 | 200 | 50 | 5  | 118 | 6×10 | 300              | 12.5        | 0.5Ω-3KΩ             |
| RXLG | 10000           |             | 650           | 630 | 200 | 50 | 5  | 118 | 6×10 | 300              | 12.5        | 0.5Ω-2.7KΩ           |
| RXLG | 11000           |             | 650           | 630 | 200 | 50 | 5  | 118 | 6×10 | 300              | 12.5        | 0.5Ω-2.7KΩ           |

## Product Size



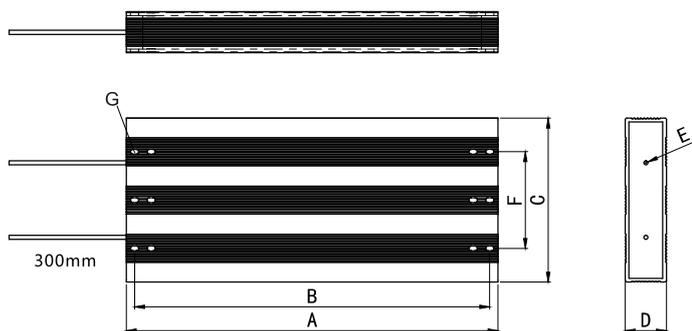
Standard product:with 300mm Lead

Picture A



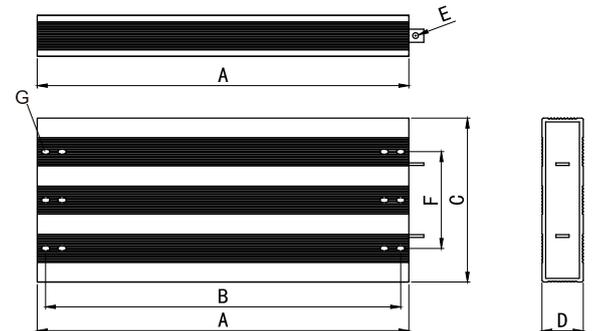
Standard product:with 300mm Lead  
With copper bar(When the rated current is higher than 45A)

Picture B



Standard product:with 300mm Lead

Picture C

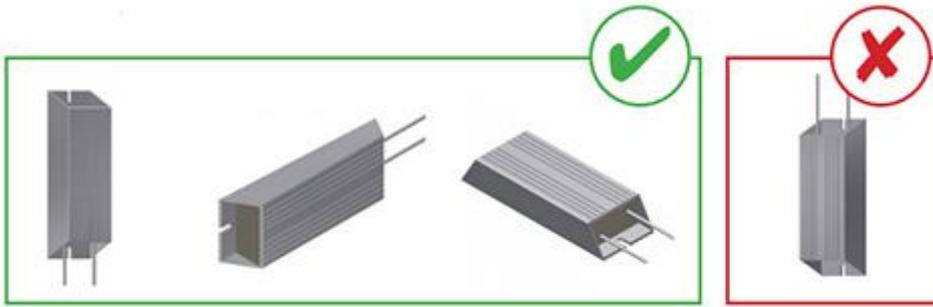


With copper bar(When the rated current is higher than 45A)

Picture D

## Installation Guidance

- Check the outlook of the resistor , see if there any damage;
- Connect the terminals with Inverter DC bus line.



Acceptable Orientation

Warning: Do not mount unit with leads pointing upwards

## Product Legal Disclaimer

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