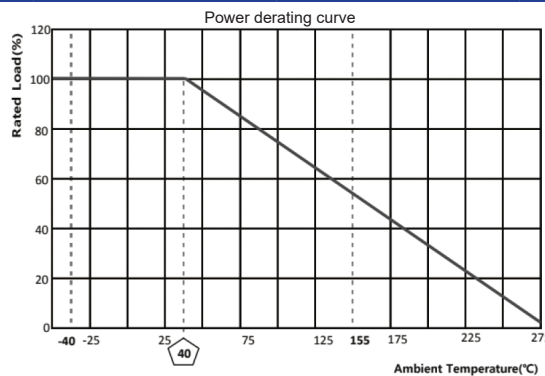


- Pre-charge / discharge resistor
- Intrinsically safe
- Aluminium housed
- Automotive grade
- Power rating: 100W
- Resistance ranges from 10Ω to 250Ω
- Tolerances of 0.5%, 1%, 2%, 5% 10%
- Non-inductive winding available
- Compact design
- High voltage cable for electric & hybrid vehicles

RoHS  
Compliant ✓

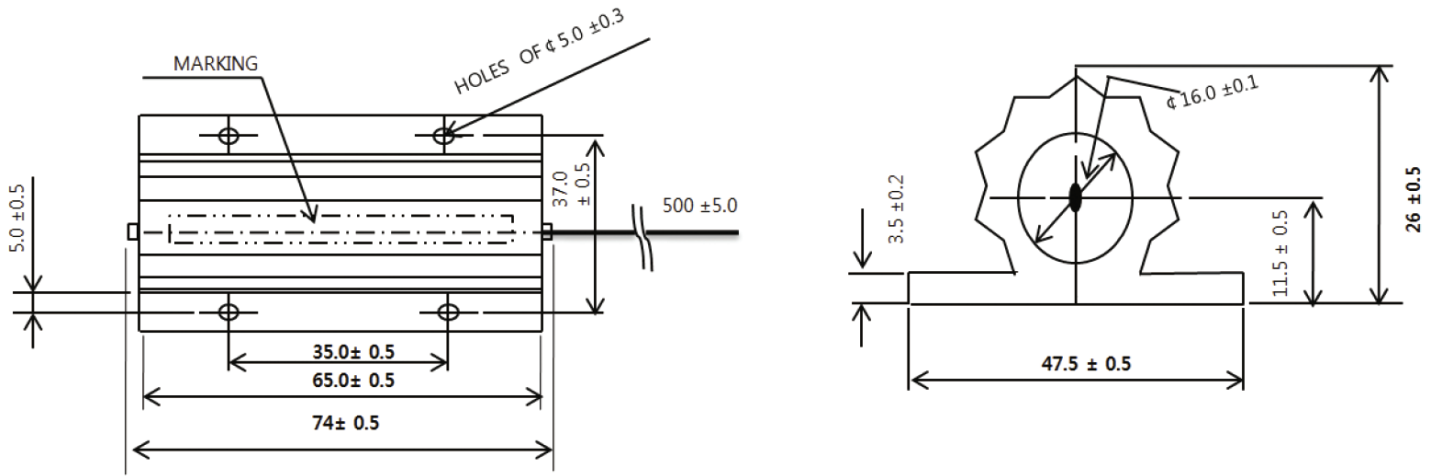
Performance Data		Table 2
Resistance	10Ω ~ 250Ω	
Power	100W ±5% (without heatsink)	
TCR	260ppm/°C	
Design voltage	$\sqrt{P \times R}$	
Maximum operating voltage	850VDC	
Maximum current	15A	
Dielectric voltage	4500V	
Insulation resistance	100MΩ	
High temperature storage	125°C, 1000hr, (±1% +0.05Ω)	
High temperature & humidity	85°C, 85% RH, 1000hr, 10% of operating power, 1000hr (±3% +0.05Ω)	
Operational life	125°C at rated power, 1000hr, (±3% +0.05Ω)	
Ambient temperature	-40°C ~ +155°C (±2% +0.05Ω)	
Temperature cycling	(-55°C ~ +125°C), Each dwell time, 30 mins, 1h/cyc, 1000 cycles (±2% +0.05Ω)	
Load life	300,000 cycles (±3% +0.05Ω)	
Short duration	200ms @ 15A (±2% +0.05Ω)	
Mechanical vibration	100G, 6ms half sine, 3 times/axis, Total 6 axis (±1% +0.05Ω)	
Short time overload	5X for 5 sec (±2% +0.05Ω)	
Charging/discharging test	95% ~ 98% Precharging ratio, 300,000 cycles (±3% +0.05Ω)	
Short circuit	Pulse Duration: 200ms. Cycle time: 2 secs 1 time: 5 cycles. Total 5 times (±2% +0.05Ω)	
Failure test	500ms ~ 1sec	
Terminations	Wire length 200±10mm. High voltage cable, Cu-R4XLPO-HV-3.0mm <sup>2</sup> (-40°C ~ +150°C / 3000hr)	
Weight (g)	125g	

### Performance graphs Fig. 1



Dimensions (mm)

Fig. 2



### Example Ordering Code

X V 3 - 1 0 0 - 2 5 0 - J - N -

