

The IRV(V=vertical) models are metal-c lad wire-wound high-power resistors designed for industrial and other applications. Our extruded aluminum housing provides rugged and strong protection. These models are available with Tab terminals. The most common applications for these models are: Motor drives, braking and snubber applications and power sources for industrial equipment.

GENERAL SPECIFICATIONS

Model	Rated Power	Resistance Range[Ω]		Resistance Tolerance [%]	
		In Free Air	Inductive		Non-Inductive
IRV / ULV 1600	570W		1.5 ~ 88	0.3 ~ 23	F [±1] J [±5] K [±10]
IRV / ULV 2000	650W		2.0 ~113	0.45 ~ 30.5	
IRV / ULV 2400	720W		2.5 ~ 144	0.6 ~ 37	
IRV / ULV 2800	750W		3.0 ~ 135	0.7 ~ 33.5	

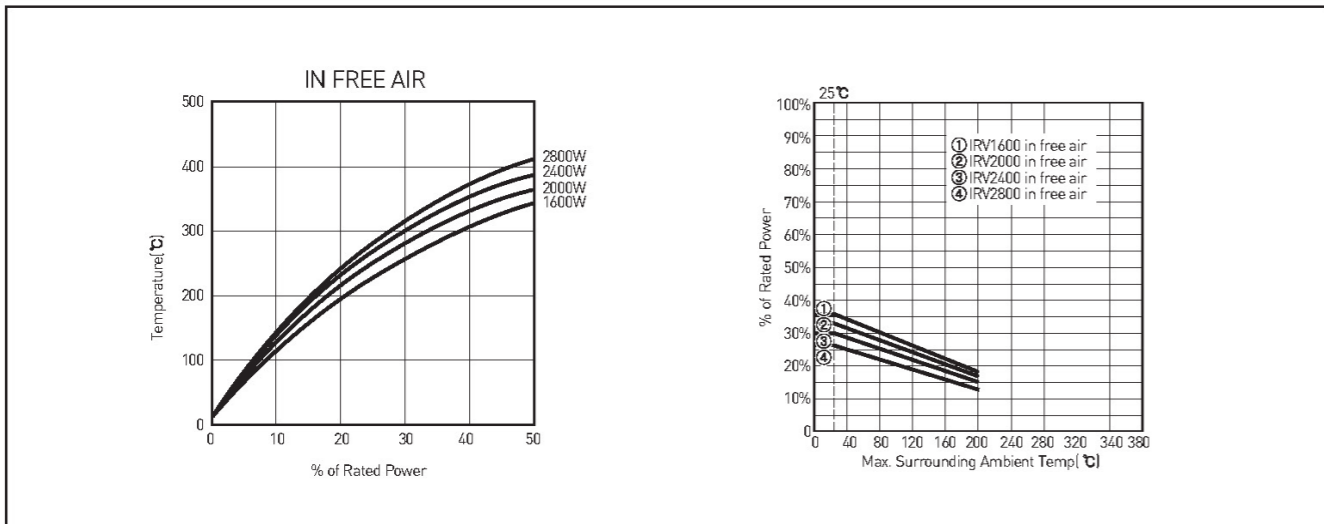
Also ohmic ranges of IRV 1600~2800 models can be extended to 10K Ω

CHARACTERISTICS

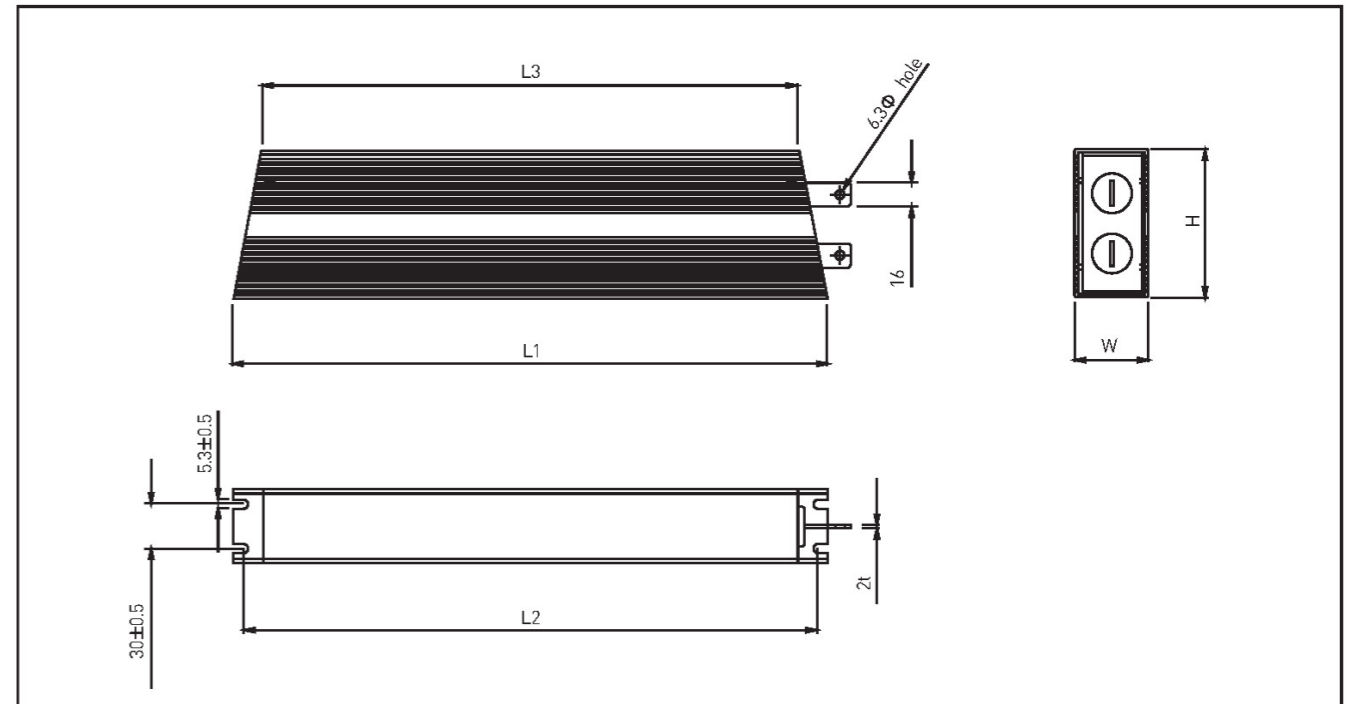
Values in [] mean change in Ω after test

Max. Surrounding Ambient Temp.	-55°C~+200°C	
Insulation Resistance	20MΩ minimum	
Dielectric Withstanding Voltage	Available options : AC1500V, 2500V, 3500V, 4500V for 1minute	
	maximum leakage current : 2mA	
Temperature Coefficient	±260ppm/°C maximum	
Short Time Overload	±[3%+0.05Ω]	10 X Power rating 5 sec.
Moisture Resistance	±[3%+0.05Ω]	40°C, 95% RH, DC100V case to terminal (500hours)
Thermal Shock	±[5%+0.05Ω]	Power rating 30minutes, -25°C, 15minutes
Vibration	±[2%+0.05Ω]	10Hz-55Hz-10Hz (1minute), 2 hours. each direction
Moisture Load Life	±[3%+0.05Ω]	40°C, 95%RH, 0.1 x Power rating, 1.5 hours on, 30 minutes off, 500 hours
Load Life	±[5%+0.05Ω]	Power rating 1.5 hours on, 30 minutes off, 500hours

SURFACE TEMPERATURE INCREASE VERSUS POWER LOAD & DERATING CURVE



DIMENSIONS [mm]



Model	Dimensions(mm)					Weight(kg)
	L1±2	L2±2	L3±2	H±1	W±0.5	
IRV / ULV 1600	330	315	290	100	50	2.5
IRV / ULV 2000	400	385	360	100	50	3.1
IRV / ULV 2400	480	465	440	100	50	3.7
IRV / ULV 2800	550	535	510	100	50	4.3

FLYING LEADS

Model	3.5mm ²	2mm ²	UL3512 AWG 10	UL3512 AWG 14
IRV / ULV 1600	0.3Ω~0.99Ω	1Ω~	0.3Ω~0.99Ω	1Ω~
IRV / ULV 2000	0.45Ω~0.99Ω	1Ω~	0.45Ω~0.99Ω	1Ω~
IRV / ULV 2400	0.6Ω~0.99Ω	1Ω~	0.6Ω~0.99Ω	1Ω~
IRV / ULV 2800	0.7Ω~0.99Ω	1Ω~	0.7Ω~0.99Ω	1Ω~

ORDERING PROCEDURE EXAMPLE

