

The IRV & ULV 600~1200(V=Vertical) models are our standard higher power wire wound, metal-clad resistors. The ULV 600~1200 is the UL approved version of the IRV600~1200 models. These models have an extruded aluminum housing providing strong and rugged protection. Options include flying leads or tab terminals, inductive or non-inductive windings. 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 (%)
	On Heatsink	In Free Air	Inductive			Non-Inductive			
			Tab TP *	Tab TS *	Flying Leads	Tab TP *	Tab TS *	Flying Leads	
IRV 600	600W	330W	0.1 ~ 9	9.1 ~ 94	0.1 ~ 94	0.1 ~ 5.3	5.4 ~ 21.2	0.1 ~ 21.2	IRV / IRH D [±0.5] F [±1.0] G [±2.0] J [±5.0] K [±10]
ULV 600			0.1 ~ 9	9.1 ~ 94	0.11 ~ 94	0.1 ~ 5.3	5.4 ~ 21.2	0.1 ~ 21.2	
IRV 800	800W	360W	0.1 ~ 11	11.1 ~ 112	0.1 ~ 112	0.1 ~ 7.2	7.2 ~ 28.8	0.1 ~ 28.8	
ULV 800			0.1 ~ 11	11.1 ~ 112	0.14 ~ 112	0.1 ~ 7.2	7.3 ~ 28.8	0.14 ~ 28.8	
IRV 1000	1000W	400W	0.1 ~ 18	18.1 ~ 140	0.1 ~ 140	0.1 ~ 9	9.1 ~ 36	0.1 ~ 36	
ULV 1000			0.1 ~ 18	18.1 ~ 90	0.17 ~ 140	0.1 ~ 9	9.1 ~ 36	0.17 ~ 36	
IRV 1200	1200W	480W	0.1 ~ 25	25.1 ~ 160	0.1 ~ 160	0.1 ~ 12	12.1 ~ 48	0.1 ~ 48	
ULV 1200			0.1 ~ 25	25.1 ~ 175	0.21 ~ 160	0.1 ~ 12	12.1 ~ 48	0.21 ~ 48	

* Note: Tab TP = Terminal Parallel Connection, Tab TS = Terminal Serial Connection

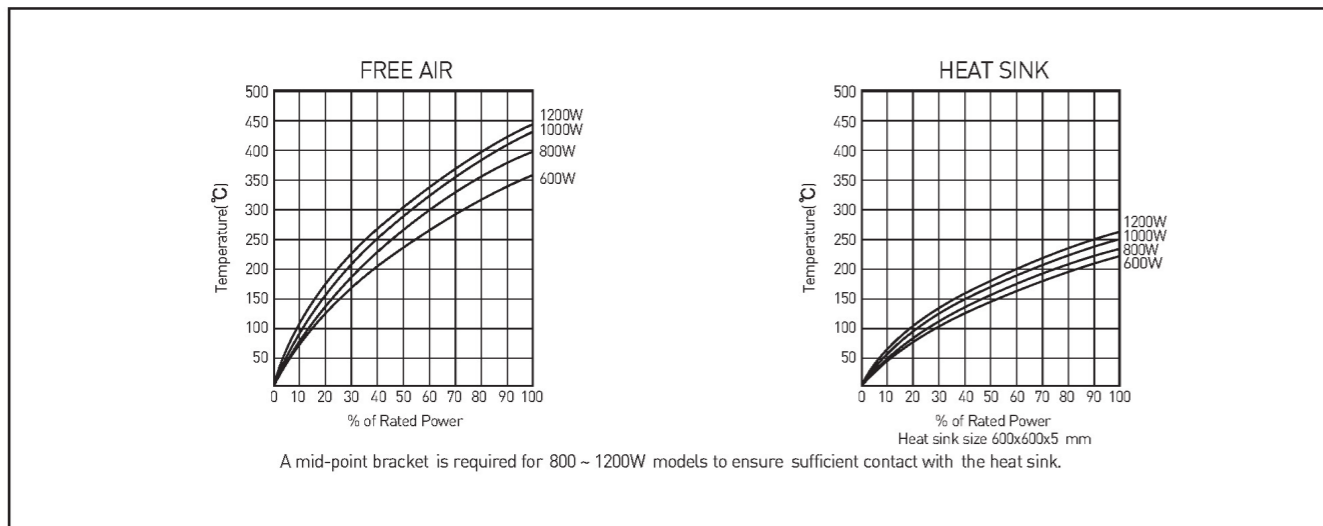
CHARACTERISTICS

Values in [] mean change in Ω after test

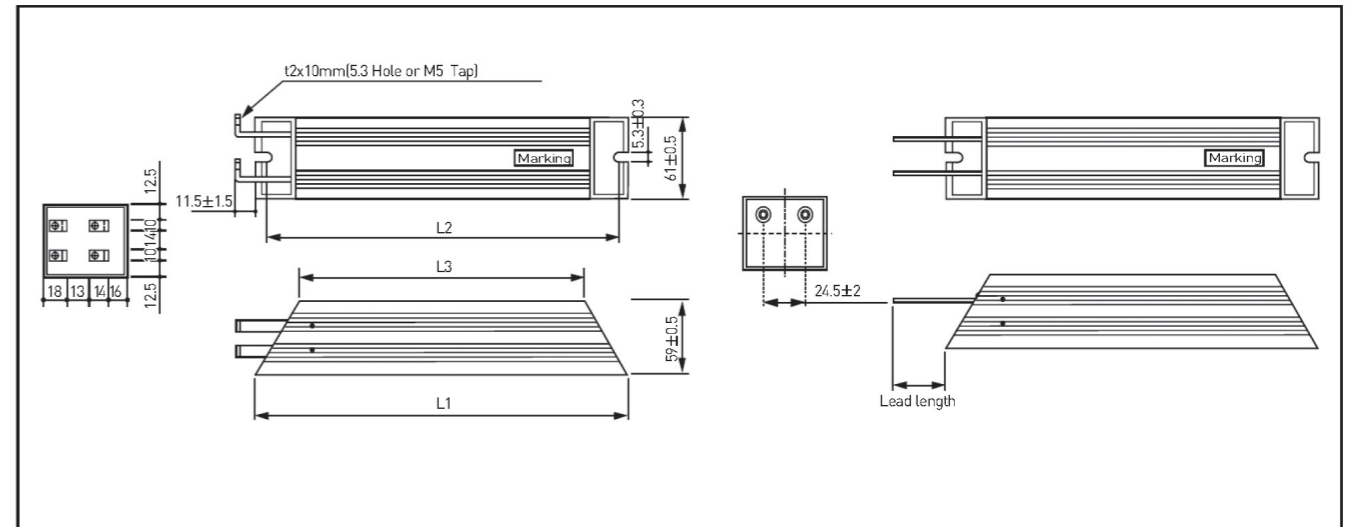
Temperature Range	-55°C ~ +200°C	
Insulation Resistance	20MΩ minimum	
Dielectric Withstanding Voltage	IRV	Available options: AC1500V, 3500V, 4500V, 5400V; maximum leakage current: 2mA
	ULV	* See note [1000V+(Voltage ratingx2)] for 1 minute
Temp. Coefficient	±260ppm/°C maximum	
Short Time Overload	±[2%+0.05Ω]	10 x Power rating 5 sec.
Moisture Resistance	±[3%+0.05Ω]	40°C, 95% RH, DC100V case to terminal, 500 hours
Thermal Shock	±[2%+0.05Ω]	Power rating 30 minutes, -25°C 15 minutes
Vibration	±[1%+0.05Ω]	10Hz~55Hz~10Hz [1 minute], 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, 500 hours

*Note ULV / ULH dielectric withstanding voltage options of AC 1500V, 3500V, 4500V, 5400V are also available. Optional dielectric withstanding voltage must be higher than standard(calculated by formula)

SURFACE TEMPERATURE INCREASE VERSUS POWER LOAD



DIMENSIONS [mm]



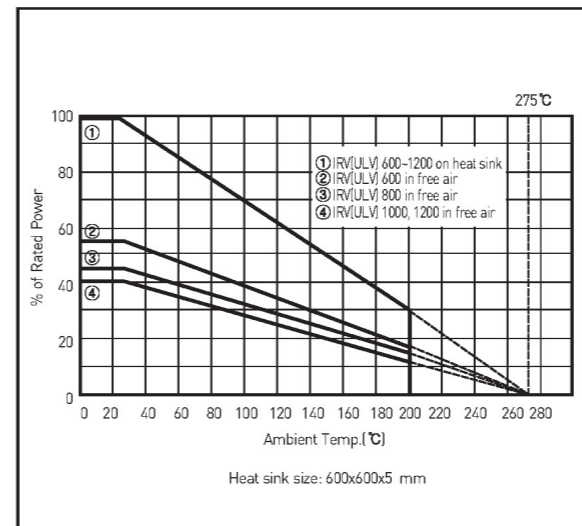
Model	Dimensions(mm)			Weight(g)
	L1±2	L2±2	L3±2	
ULV / IRV 600	235	216	195	1165
ULV / IRV 800	285	266	246	1500
ULV / IRV 1000	335	316	295	1835
ULV / IRV 1200	405	386	365	2304

FLYING LEADS

Model	8 mm ²	5.5 mm ²	UL3512 AWG10
IRV 600 ~1200	0.1Ω ~ 0.99Ω	0.1Ω ~	X
ULV 600	X	X	0.11Ω ~
ULV 800	X	X	0.14Ω ~
ULV 1000	X	X	0.17Ω ~
ULV 1200	X	X	0.21Ω ~

*Option: Flying leads options of UL3135, UL3139, UL3071, UL3172 are also available

DERATING CURVES



ORDERING PROCEDURE EXAMPLE

