Tel: 82-32-817-4325
Fax: 82-32-817-4329

Resistors And
Resistive Applications

IRV/ULV 600-500

The IRV/ULV600-1200 (V=vertical) models are our standard higher power, wire wound, metal clad resistors. The ULV600-1200 are the UL approved versions of the IRV600-1200 models. These models have an extruded aluminium housing providing strong and rugged protection. Options include flying leads or tab terminals and 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.

SPECIFICATIONS

Model	Power Rating on Heatsink	Resistance Range [ohms]						Resistance Tolerances [+-%]	
		Inductive			Non-Inductive				
		Tab TP	Tab TS	Leads	Tab TP	Tab TS	Leads	IRV	ULV
IRV600	600W	0.1-9	9.1-94	0.1-94	0.1-5.3	5.4-21.2	0.1-21.2	0.5 1.0 2.0 5.0 10	2.0 5.0 10
ULV600		0.1-9	9.1-94	0.1-94	0.1-5.3	5.4-21.2	0.1-21.2		
IRV800	800W	0.1-11	11.1-112	0.1-112	0.1-7.2	7.2-28.8	0.1-28.8		
ULV800		0.1-11	11.1-112	0.14-112	0.1-7.2	7.2-28.8	0.14-28.8		
IRV1000	1000W	0.1-18	18.1-140	0.1-140	0.1-9	9.1-36	0.1-36		
ULV1000		0.1-18	18.1-140	0.17-140	0.1-9	9.1-36	0.17-36		
IRV1200	1200W	0.1-25	25.1-160	0.1-160	0.1-12	12.1-48	0.1-48		
ULV1200		0.1-25	25.1-75	0.21-160	0.1-12	12.1-48	0.21-48		

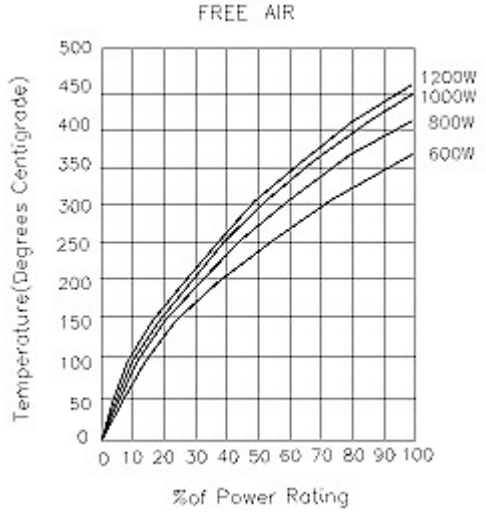
CHARACTERISTICS

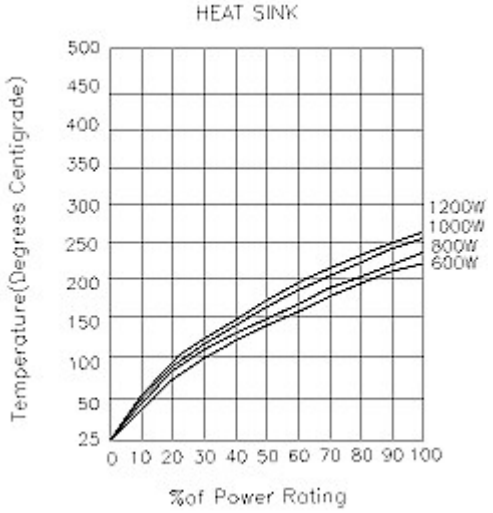
Values in [ ] mean change in W after test

Temperature Range		-55C to +200C
Insulation Resistance		20MW minimum
Dielectric Strength	IRV	Options: AC1500V, 3500V, 4500V, 5400V; Max. leakage current: 2mA
	ULV	See Note [1000V+(Voltage Rating X 2) for 1min.
Temp. Coefficient		±260ppm/C maximum
Short Time Overload	±[2%+0.05W]	10 X Power rating-5seconds
Moisture Resistance	±[3%+0.05W]	40C, 95% RH, DC100V case to terminal (500hrs.)
Thermal Shock	±[2%+0.05W]	Power rating 30min., 25C,15minutes
Vibration	±[1%+0.05W]	1Hz-55Hz-10Hz (1min.), 2hrs. each direction
Moisture Load Life	±[3%+0.05W]	40C, 95% RH, 0.1 X Power rating, 1.5h. on, 30min. off, 500 hrs.
Load Life	±[5%+0.05W]	Power rating 1.5hr. on, 30min. off, 500hours

Note: ULV/ULH dielectric strength options of AC1500V, 3500V, 4500V, 5400V also available
Optional dielectric strength must be higher than standard (calculated by formula)

SURFACE TEMPERATURE INCREASE VS POWER LOAD





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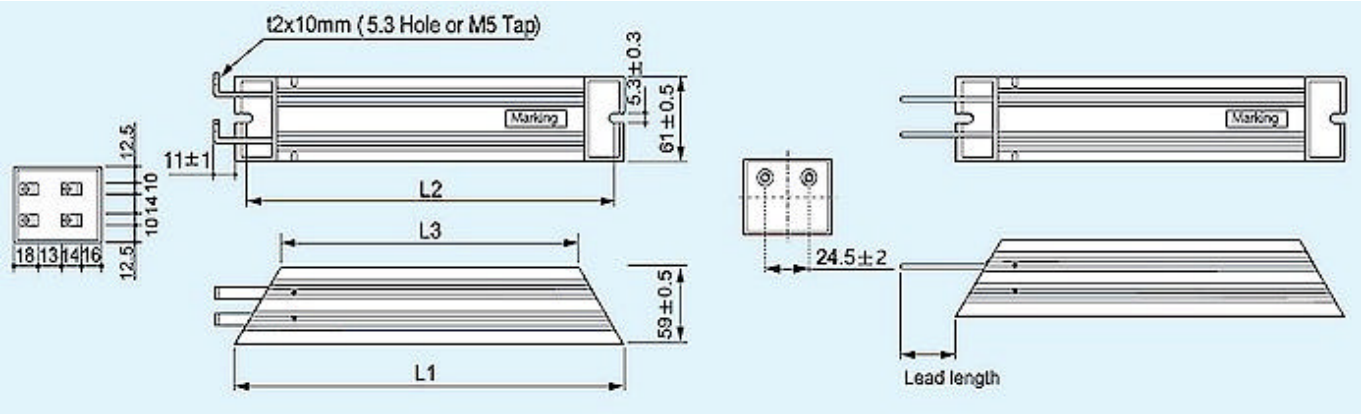
DIMENSIONS

Model	Dimensions [mm]			Weight [g]
	L1+-2	L2+-2	L3+-2	
IRV600	235	216	195	1165
IRV800	285	266	245	1500
IRV1000	335	316	295	1835
IRV1200	405	386	365	2304



FLYING LEADS

Model	8mm^2	5.5mm^2	UL 3512 AWG 10
IRV600-1200	0.1-0.99ohms	1 ohm and up	-
ULV600	-	-	0.11 ohms and up
ULV800	-	-	0.14 ohms and up
ULV1000	-	-	0.17 ohms and up
ULV1200	-	-	0.21 ohms and up

ORDERING PROCEDURE EXAMPLE

IRV1000	P	N	FL XXXX	5 ohm	J
Model Number	Connection P=parallel S=Series	N is for Non-inductive	Flying Leads in mm	Resistance	Tolerance

DERATING CURVE