# ULV 600 - 1200



# Dynamic Braking 600 W to 1200 W (UL® Recognized)

Designed for larger electrical loads, the 600-1200 watt models are UL® recognized metal-clad, wire-wound, high power resistors for use in industrial drives and other applications. The rugged, extruded aluminum housing provides electrical isolation and simple two-screw mounting. These models are available with flying leads or tab terminals and can be ordered with inductive or non-inductive windings. All four package sizes are available with internally mounted, UL listed, thermostat circuits.

### **General Specifications**

Model	Power Rating on Heat Sink	Resistance Range (ohms)							
		Inductive			Non-Inductive			Tolerance	
		Tab TP*	Tab TS*	Flying Leads	Tab TP*	Tab TS*	Flying Leads	.0.0(0)	
ULV600	600	0.1-9	9.1-94	0.1-94	0.1-5.3	5.4-21.2	0.1-21.2	±2.0(G) ±5.0(J)	
ULV800	800	0.1-11	11.1-112	0.14-112	0.1-7.2	7.3-28.8	0.14-28.8	±10(K)	
ULV1000	1000	0.1-18	18.1-90	0.17-140	0.1-9	9.1-36	0.17-36		
ULV1200	1200	0.1-25	25.1-75	0.21-160	0.1-12	12.1-48	0.21-48		

NOTE: Tab TP: Tab Terminal Parallel Connection Tab TS: Tab Terminal Series Connection All models available with thermostat circuit. Contact Isotek Technical Support for calibration temperatures.

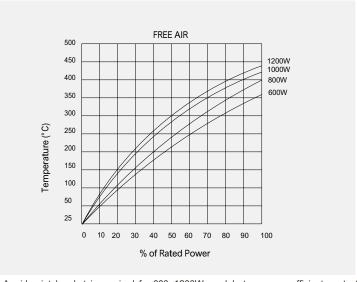


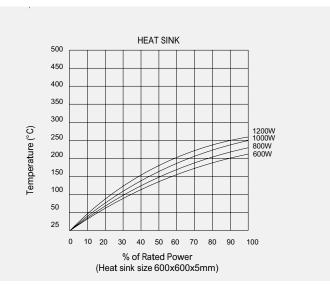
#### **Characteristics**

	Values in [ ] indicate change in $\Omega$ after test
Temperature Range	-55°C to 200°C
Insulation Resistance	20MΩ minimum
Dielectric Strength	[1000V + (rated voltage x 2)] minimum
Temperature Coefficient	±260 ppm/°C maximum
Short Time Overload	± [2% + 0.05 Ω] 10 x power rating - 5 seconds
Moisture Resistance	± [3% + 0.05 Ω] 40°C, 95% Rh, DC100V case to terminal (500 hours)
Thermal Shock	$\pm$ [2% + 0.05 $\Omega$ ] Power rating - 30 minutes, -25°C - 15 minutes
Vibration	± [1% + 0.05 Ω] 10Hz - 55Hz - 10Hz (1 minute) 2 hours each direction
Moisture Load Life	± [3% + 0.05 Ω] 40°C, 95% Rh, 0.1 x power rating, 1.5 hours on, 30 minutes off, 500 hours
Load Life	$\pm$ [5% + 0.05 $\Omega$ ] Power rating 1.5 hours on, 30 minutes off, 500 hours

Applied voltage: AC RMS

## Surface Temperature Increase Versus Power Load





A mid-point bracket is required for  $600\sim1200W$  models to ensure sufficient contact with the heat sink.

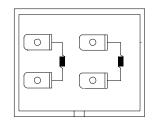
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### **Dimensions**

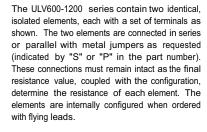
Model	Dim	ensions [ı	mm]	Maight [g]	Flying Leads UL E120271(AWM), No. 3512 AWG10	
iviodei	L1	L2	L3	Weight [g]		
ULV600	235	216	195	1165	0.11 Ω~	
ULV800	285	266	245	1500	0.14 Ω~	
ULV1000	335	316	295	1835	0.17 Ω~	
ULV1200	405	386	365	2304	0.21 Ω~	

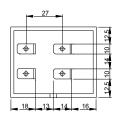


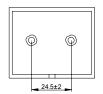
2±1.8

L1±1.5

t2 x 10mm (5.3 diam. hole)







## **Derating Curve and Ordering Procedure Example**

LEAD LENGTH [mm]

