



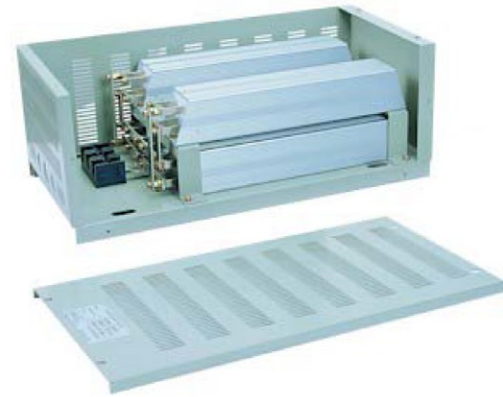
HRA

DYNAMIC BRAKING 640W TO 3100 W

The HRA series of high power, metal clad, wire wound resistors are designed for use in high power inverters. These assemblies are based on our standard metal clad resistor technology. The resistors are enclosed in a powder coated steel case, which conforms to international safety specifications.

GENERAL SPECIFICATIONS

Model	Power Rating in Free Air	Resistance Range (Ω)		Resistance Tolerance
		Inductive	Non-Inductive	
HRA1.6K	640	0.1-224	0.1-56	±0.5 (D) ±1.0 (F) ±2.0 (G) ±5.0 (J) ±10 (K)
HRA2.0K	800	0.1-280	0.1-72	
HRA2.4K	960	0.1-320	0.1-96	
HRA3.0K	1100	0.1-420	0.1-108	
HRA3.6K	1250	0.1-480	0.1-144	
HRA4.0K	1400	0.1-560	0.1-144	
HRA4.8K	1500	0.1-640	0.1-192	
HRA5.0K	1600	0.1-700	0.1-180	
HRA6.0K	1800	0.1-840	0.1-216	
HRA7.2K	2000	0.1-960	0.1-280	
HRA8.4K	2200	0.1-1120	0.1-366	
HRA9.6K	2600	0.1-1280	0.1-384	
HRA10.8K	2900	0.1-1440	0.1-432	
HRA12K	3100	0.1-1600	0.1-480	



CHARACTERISTICS

Temperature Range	-55°C to +275°C
Insulation Resistance	20M Ω minimum
Dielectric Strength	Available options: 1500 VAC, 3500 VAC, leakage current 2mA
Temp. Coefficient	±260 ppm/°C maximum
Short Time Overload	±(2% + 0.05 Ω) 10 X power rating (5 sec.)
Moisture Resistance	±(3% + 0.05 Ω) 40°C, 95% RH, DC100V case to terminal (500 hours)
Thermal Shock	±(2% + 0.05 Ω) Power rating 30 minutes, -25°C 15 minutes

DIMENSIONS

Model	Dimensions [mm]					Weight [kg]
	W±5	D±5	H±3	W1±3	D1±3	
HRA1.6K	250	510	110	215	360	7.8
HRA2.0K	250	510	110	215	360	8.5
HRA2.4K	252	580	110	215	430	14.1
HRA3.0K	250	510	110	215	360	10.5
HRA3.6K	252	580	110	215	430	16.4
HRA4.0K	250	510	190	215	360	15.0
HRA4.8K	252	580	190	215	430	18.7
HRA5.0K	250	510	190	215	360	16.6
HRA6.0K	250	510	190	215	360	21.0
HRA7.2K	252	580	190	215	430	23.3
HRA8.4K	393	580	190	355	360	25.6
HRA9.6K	393	580	190	355	360	27.9
HRA10.8K	393	580	190	355	360	30.2
HRA12K	393	580	190	355	360	32.5

