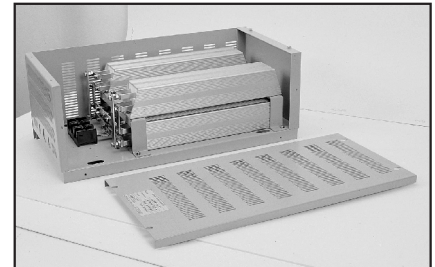


High Power Resistor Assemblies

The HRA series of high power, metal clad, wire wound resistors are designed for use in high power inverters. The basis for these models are sets of IRV resistors surrounded by a metal case, which conforms to international safety specifications.

GENERAL SPECIFICATIONS

Model	Resistor Type Inside	Power Rating In Free Air	Resistance Range[Ω]		Resistance Tolerance(%)
			Inductive	Non-Inductive	
HRA1600	2×IRV800	520W	0.1 ~ 224	0.1 ~ 56	
HRA2000	2×IRV1000	640W	0.1 ~ 280	0.1 ~ 72	
HRA2400	2×IRV1200	770W	0.1 ~ 320	0.1 ~ 96	
HRA3000	3×IRV1000	880W	0.1 ~ 420	0.1 ~ 108	
HRA3600	3×IRV1200	1000W	0.1 ~ 480	0.1 ~ 144	D [±0.5]
HRA4000	4×IRV1000	1120W	0.1 ~ 560	0.1 ~ 144	F [±1.0]
HRA4800	4×IRV1200	1200W	0.1 ~ 640	0.1 ~ 192	G [±2.0]
HRA5000	5×IRV1000	1280W	0.1 ~ 700	0.1 ~ 180	J [±5.0]
HRA6000	6×IRV1000	1440W	0.1 ~ 840	0.1 ~ 216	K [±10]
HRA7200	6×IRV1200	1600W	0.1 ~ 960	0.1 ~ 288	
HRA8400	7×IRV1200	1760W	0.1 ~ 1120	0.1 ~ 366	
HRA9600	8×IRV1200	2080W	0.1 ~ 1280	0.1 ~ 384	
HRA10800	9×IRV1200	2320W	0.1 ~ 1440	0.1 ~ 432	
HRA12000	10×IRV1200	2480W	0.1 ~ 1600	0.1 ~ 480	

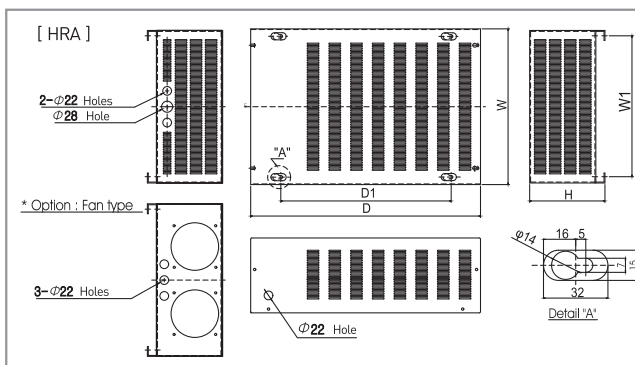


CHARACTERISTICS

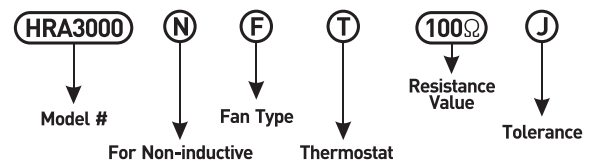
Values in [] mean change in Ω after test

Temperature Range		-55°C to +200°C
Insulation Resistance		20MΩ minimum
Dielectric Withstanding Voltage		Standard: AC1500V for 1minute; Maximum leakage current: 2mA
Temperature Coefficient		±260ppm/°C maximum
Short Time Overload	±[2%+0.05Ω]	10×Power rating 5seconds
Moisture Resistance	±[3%+0.05Ω]	40°C, 95% RH, DC100V case to terminal, 500hours
Thermal Shock	±[2%+0.05Ω]	Power rating 30 minutes, -25°C, 15 minutes

DIMENSIONS [mm]



ORDERING PROCEDURE EXAMPLE



These models come with multiple conduit knockouts for easy wiring. The enclosure is well ventilated and meets international safety specs. If you choose a fan type, the rated power can be increased.

Model	Weight [Kg]	Dimensions [mm]				
		W±5	D±5	H±3	W1±2	D1±2
HRA1600	7.8 / 8.33(Fan)	252	510	110	215	360
HRA2000	8.5 / 9.0(Fan)	252	510	110	215	360
HRA2400	14.1 / 14.6(Fan)	252	580	110	215	430
HRA3000	10.5 / 11.3(Fan)	252	510	110	215	360
HRA3600	16.4 / 16.9(Fan)	252	580	110	215	430
HRA4000	15.0 / 15.5(Fan)	252	510	190	215	360
HRA4800	18.7 / 19.2(Fan)	252	580	190	215	430
HRA5000	16.6 / 17.1(Fan)	252	510	190	215	360
HRA6000	21.0 / 21.5(Fan)	252	510	190	215	360
HRA7200	23.3 / 23.8(Fan)	252	580	190	215	430
HRA8400	25.6 / 26.1(Fan)	393	580	190	355	430
HRA9600	27.9 / 28.4(Fan)	393	580	190	355	430
HRA10800	30.2 / 30.7(Fan)	393	580	190	355	430
HRA12000	32.5 / 33(Fan)	393	580	190	355	430