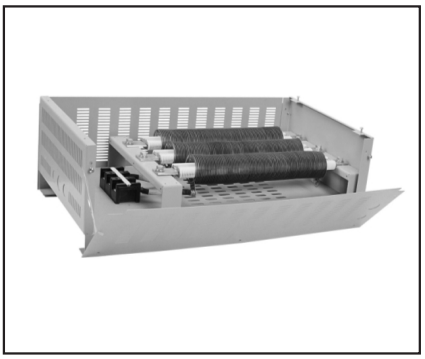
Edge Wound Resistor Assemblies

The EW series of metal clad edge wound resistors are designed for use in super high power inverters. The basis for these models are edge wound elements, surrounded by a metal case, which conforms to international safety specifications.

GENERAL SPECIFICATIONS

Model	Power Rating		Resistance Range[Ω]	Resistance Tolerance [%]
	With Fan	In Free Air		
EWS 10K	4.5 KW	3KW	0.5 ~ 3.0	J [±5.0] K [±10]
EWS 13K	6 KW	4KW	0.7 ~ 4.0	
EWS 17K	7.5 KW	5KW	0.9 ~ 5.0	
EWS 20K	9 KW	6KW	1.0 ~ 6.0	
EWS 26K	12 KW	8KW	1.4 ~ 8.0	
EWF 10K	4.5 KW	3KW	3.1 ~ 18	
EWF 13K	6 KW	4KW	4.2 ~ 24	
EWF 17K	7.5 KW	5KW	5.2 ~ 30	
EWF 20K	9 KW	6KW	6.1 ~ 36	
EWF 26K	12 KW	8KW	6.4 ~ 48	



Note: The EWS series use SUS 304 resistance wire.
The EWF series use FCHW resistance wire.

CHARACTERISTICS

Values in [ ] mean change in Ω after test

Temperature Range		-55℃ ~ +200℃
Insulation Resistance		20MΩ minimum
Dielectric Withstanding Voltage		Available options: AC1500V, 3500V, 4500V, 5400V for min.; Max. leakage current: 2mA
Temperature Coefficient		EWS: ±800ppm/℃ maximum EWF: ±260ppm/℃ maximum
Short Time Overload	±[2%+0.05Ω]	10 X Power rating 5 seconds
Moisture Resistance	±[3%+0.05Ω]	40℃, 95% RH, DC100V case to terminal, 500 hours
Thermal Shock	±[2%+0.05Ω]	Power rating 30 minutes, -25℃, 15 minutes

DIMENSIONS [mm]

Model	Approx. Weight [Kg]	Dimensions [mm]		
		D±5	W±4	H±4
EWS10K	17 / 17.5(FAN)	700	356	191
EWS13K	23.0 / 23.5(FAN)	700	446.5	191
EWS17K	25.0 / 25.5(FAN)	700	446.5	191
EWS20K	26.5 / 27.0(FAN)	700	356	280
EWS26K	35.0 / 35.5(FAN)	700	446.5	280
EWF10K	15.0 / 15.5(FAN)	700	356	191
EWF13K	20.0 / 20.5(FAN)	700	446.5	191
EWF17K	21.5 / 22.0(FAN)	700	446.5	191
EWF20K	22.5 / 23.0(FAN)	700	356	280
EWF26K	30.0 / 30.5(FAN)	700	446.5	280

ORDERING PROCEDURE EXAMPLE

