

DBR

Dynamic Braking Resistor

UNI ELECTRONICS

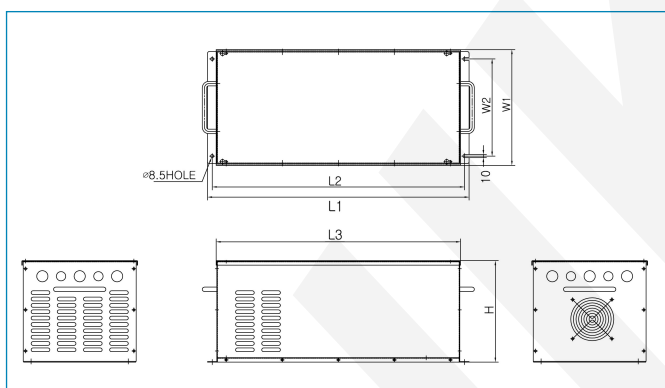
The DBR series of **high power, coiled type** wire wound resistors are designed for use in high power inverters. The basis for these models are sets of coil resistor surrounded by a metal case, which conforms to international safety specifications. The steel case is powder coated and baked for durability.

Specification

Model	Wattage Rating in Free Air	Resistance Range (Ω)	Resistance Tolerance
		Inductive	
MCR-FAN-20000	20KW	0.1-30	± 1.0 (F)
MCR-FAN-22000	22KW	0.1-30	± 2.0 (G)
MCR-FAN-25000	25KW	0.1-25	± 5.0 (J)
MCR-FAN-28000	28KW	0.1-20	± 10 (K)
MCR-FAN-30000	30KW	0.1-15	



Dimensions & Ordering Procedure Example



MCR	20000	FAN	20KW	10 Ω	J	T145
Model #	Type	Rated power	Resistance	Tolerance	Temperature Sensor	

- T145 : 145°C • T200 : 200°C • - : Notavailabel
- (F) FAN : AC110V, AC220V

FAN 110	AC 110V	T145	145°C
FAN 220	AC 220V	T200	200°C
SET -	Notavailabel	-	Notavailabel

Dimension

Model	Dimensions (mm)					
	L1 ± 5	L2 ± 5	L3 ± 3	W1 ± 2	W2 ± 2	H ± 2
MCR-FAN-20000	630	605	584	310	260	271
MCR-FAN-22000	630	605	584	310	260	271
MCR-FAN-25000	630	605	584	310	260	271
MCR-FAN-28000	630	605	584	310	260	271
MCR-FAN-30000	630	605	584	310	260	271

Characteristics

Values in [] mean change in Ω after test

Temperature Range	-55°C ~ 200°C					
Insulation Resistance	20M Ω min.					
Dielectric Strength	Available options : AC1500V, 2500V, Leakage Current : 5mA					
Temp. Coefficient	± 260 ppm/°C max.					
Short Time Overload	$\pm [2\%+0.05\Omega]$	10X wattage rating-5seconds				
Moisture Resistance	$\pm [3\%+0.05\Omega]$	40°C, 95% RH, DC100V case to terminal (500hrs.)				
Thermal Shock	$\pm [2\%+0.05\Omega]$	wattage rating 30min., 25°C, 15 minutes				

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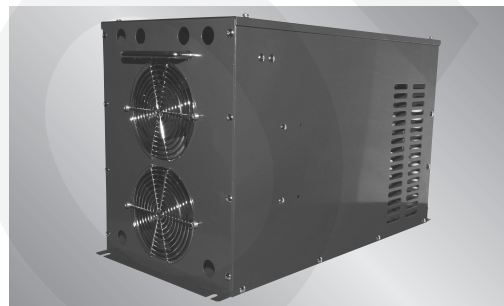
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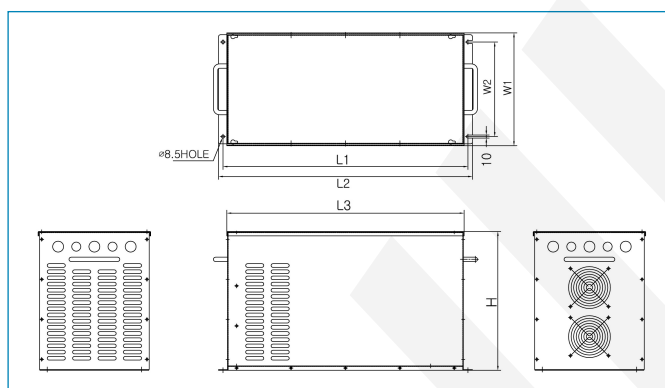
The DBR series of **high power, metal clad**, wire wound resistors are designed for use in high power inverters. The basis for these models are sets of PRV resistor surrounded by a metal case, which conforms to international safety specifications. The steel case is powder coated and baked for durability.

Specification

Model	Wattage Rating in Free Air	Resistance Range (Ω)	Resistance Tolerance
		Inductive	
MCRD-FAN-20000	20KW	0.1-700	$\pm 1.0(F)$
MCRD-FAN-22000	22KW	0.1-700	
MCRD-FAN-25000	25KW	0.1-600	$\pm 2.0(G)$
MCRD-FAN-28000	28KW	0.1-550	$\pm 5.0(J)$
MCRD-FAN-30000	30KW	0.1-500	$\pm 10(K)$



Dimensions & Ordering Procedure Example



MCR	25000	FAN	25KW	50 Ω	J	T145
Model #	Type	Rated power	Resistance	Tolerance	Temperature Sensor	

- T145 : 145°C • T200 : 200°C • - : Notavailable
- (F) FAN : AC110V, AC220V

FAN 110	AC 110V	T145	145°C
FAN 220	AC 220V	T200	200°C
SET -	Notavailable	-	Notavailable

Dimension

Model	Dimensions (mm)					
	L1 ± 5	L2 ± 5	L3 ± 3	W1 ± 2	W2 ± 2	H ± 2
MCR-FAN-20000	630	605	584	310	260	381
MCR-FAN-22000	630	605	584	310	260	381
MCR-FAN-25000	630	605	584	310	260	381
MCR-FAN-28000	630	605	584	310	260	381
MCR-FAN-30000	630	605	584	310	260	381

Characteristics

Values in [] mean change in Ω after test

Temperature Range	-55°C ~ 200°C					
Insulation Resistance	20M Ω min.					
Dielectric Strength	Available options : AC1500V, 2500V, Leakage Current : 5mA					
Temp. Coefficient	$\pm 260\text{ppm}/^\circ\text{C}$ max.					
Short Time Overload	$\pm [2\%+0.05\Omega]$ 10Xwattage rating-5seconds					
Moisture Resistance	$\pm [3\%+0.05\Omega]$ 40°C, 95% RH, DC100V case to terminal (500hrs.)					
Thermal Shock	$\pm [2\%+0.05\Omega]$ wattage rating 30min., 25°C, 15 minutes					

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