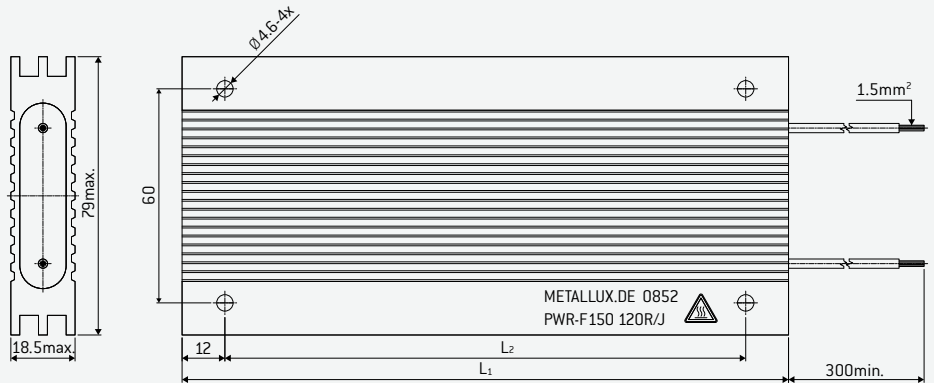


PWR-F WIRE POWER RESISTOR IN ALUMINIUM CASING



Wire resistors in aluminium profile combine the high pulse load capacity of conventional resistor materials with optimised thermal conduction and a high degree of protection. Assembly on a surface with good thermal conduction properties improves the heat dissipation additionally and leads to an increased load capacity. The series PWR-F satisfies the requirements of UL508 and is particularly suitable for applications as brake resistor, charging and discharging resistor, or also as heating resistor.



TYPE SELECTION AND DIMENSIONS

Type	Without cooling		With cooling	Resistance values	Max. voltage	L ₁	L ₂	/g/
	P _{NDC} =30% /W/	P _{NDC} =100% /W/	P _N at 25°C			mm	mm	
PWR-F 150	225	75	150 W	2R2 – 220R	1000 V $\approx$	80	56	250
PWR-F 200	300	100	200 W	3R6 – 390R	1000 V $\approx$	110	86	350
PWR-F 300	450	150	300 W	5R6 – 560R	1500 V $\approx$	163	139	500
PWR-F 400	600	200	400 W	7R5 – 820R	1500 V $\approx$	216	192	650
PWR-F 500	750	250	500 W	10R – 1K	2000 V $\approx$	270	246	800
PWR-F 600	900	300	600 W	11R – 1K1	2000 V $\approx$	300	276	900

SAMPLE ORDER

PWR-F600 90 R/J 300 mm connection lines

Inductance < 0.2 mH at 1 KHz

Time constant 6.6 to 7.1 min.

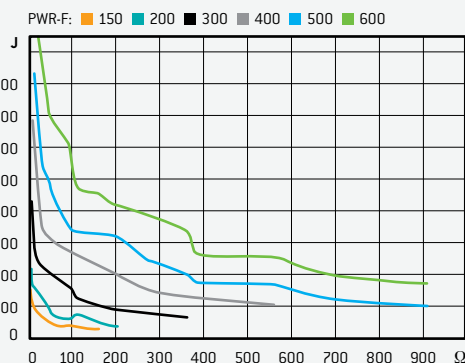
Degree of protection IP55 (opt. IP65)

Storage temperature –10°C at +50°C

PWR-FTxxx version with integrated temperature switch for all performance classes.

The duty cycle DC in percent is based on a cycle time of 120 sec.

PULSE ENERGY



PARAMETER

Max. surface temperature	250°C
Tolerance	± 5%
Temperature coefficient TC	≤ ± 150 ppm/K
Stability at P_{nominal} @ 25°C, 1000 h	± 5%
Max. overload capacity	10 x P _{NDC} =100%, 5 sec
Insulation resistance at 500VDC	≥ 10 GΩ
Test voltage	4000 V $\approx$
Connection lines	UL SIFGL wire line AWG16 style 3071, 200°C, 600V UL PTFE wire line AWG16 style 1199, 200°, 600V UL FEP wire line AWG16 style 10203, 200°C, 600V