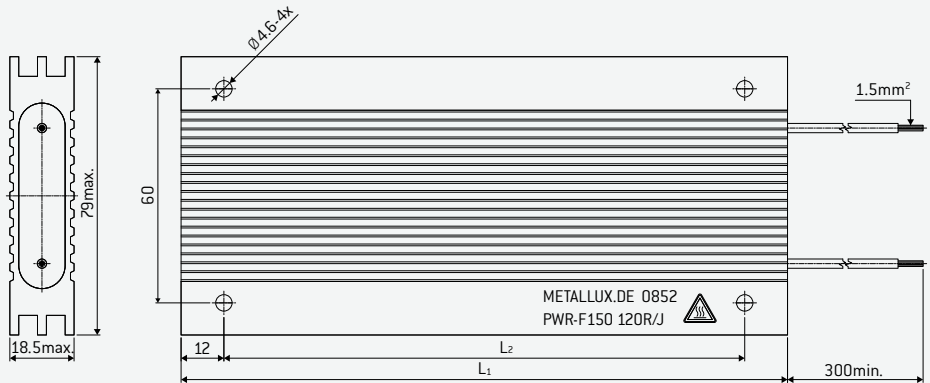


# PWR-F WIRE POWER RESISTOR IN ALUMINIUM CASING



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 <sub>1</sub>	L <sub>2</sub>	/g/
	P <sub>NDC</sub> =30% /W/	P <sub>NDC</sub> =100% /W/	P <sub>N</sub> at 25°C					
PWR-F 150	225	75	150 W	2R2 – 220R	1000V $\cong$	80	56	250
PWR-F 200	300	100	200 W	3R6 – 390R	1000V $\cong$	110	86	350
PWR-F 300	450	150	300 W	5R6 – 560R	1500V $\cong$	163	139	500
PWR-F 400	600	200	400 W	7R5 – 820R	1500V $\cong$	216	192	650
PWR-F 500	750	250	500 W	10R – 1K	2000V $\cong$	270	246	800
PWR-F 600	900	300	600 W	11R – 1K1	2000V $\cong$	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.

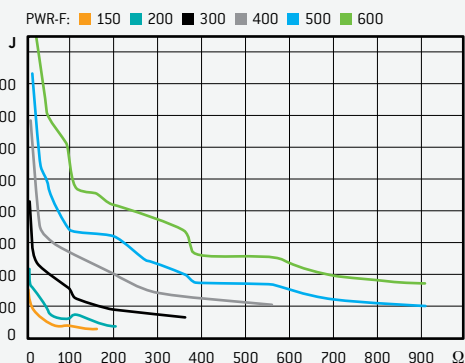
**Degree of protection** IP55 (opt. IP65)

**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

<b>Max. surface temperature</b>	250°C
<b>Tolerance</b>	± 5%
<b>Temperature coefficient TC</b>	≤ ± 150 ppm/K
<b>Stability at P<sub>nominal</sub> @ 25°C, 1000 h</b>	± 5%
<b>Max. overload capacity</b>	10 x P <sub>NDC</sub> =100%, 5 sec
<b>Insulation resistance at 500VDC</b>	≥ 10 GΩ
<b>Test voltage</b>	4000 V $\cong$
<b>Connection lines</b>	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