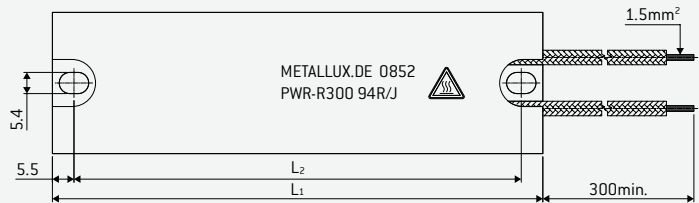
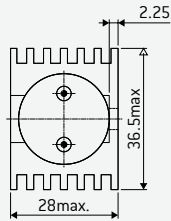


# PWR-R WIRE POWER RESISTOR IN ALUMINIUM CASING



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-R 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>NED=30%</sub> /W/	P <sub>NED=100%</sub> /W/	P <sub>N</sub> at 25°C					
PWR-R 150	120	45	150 W	1R6 – 180R	1000V $\cong$	90	79	180
PWR-R 200	160	60	200 W	2R2 – 240R	1000V $\cong$	105	94	208
PWR-R 300	240	70	300 W	4R7 – 420R	1500V $\cong$	155	144	310
PWR-R 400	320	80	400 W	6R8 – 620R	2000V $\cong$	200	189	400
PWR-R 500	400	100	500 W	9R1 – 910R	2300V $\cong$	260	249	515
PWR-R 600	480	120	600 W	12R – 1K2	2800V $\cong$	320	309	635

## SAMPLE ORDER

PWR-R300 100 R/J 300 mm connection lines

**Inductance** < 0.2 mH at 1 KHz

**Time constant** 6.6 to 7.1 min.

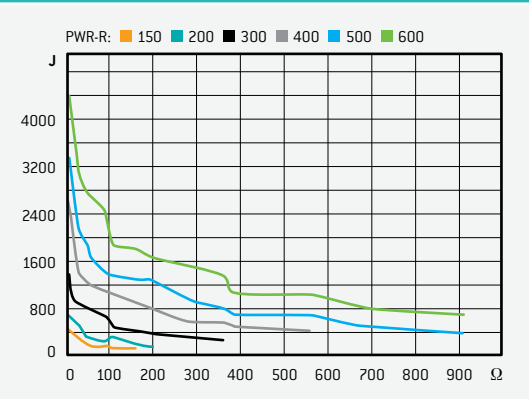
**Degree of protection** IP55 (opt. IP65)

**Storage temperature** –10°C at +50°C

PWR-RTxxx 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