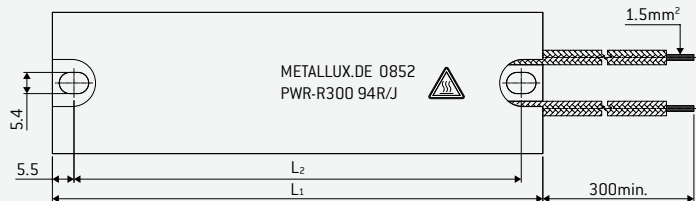
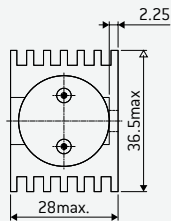


PWR-R WIRE POWER RESISTOR IN ALUMINIUM CASING



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 ₁	L ₂	/g/
	P _{NED} =30% /W/	P _{NED} =100% /W/	P _N at 25°C			mm	mm	
PWR-R 150	120	45	150 W	1R6 – 180R	1000 V \approx	90	79	180
PWR-R 200	160	60	200 W	2R2 – 240R	1000 V \approx	105	94	208
PWR-R 300	240	70	300 W	4R7 – 420R	1500 V \approx	155	144	310
PWR-R 400	320	80	400 W	6R8 – 620R	2000 V \approx	200	189	400
PWR-R 500	400	100	500 W	9R1 – 910R	2300 V \approx	260	249	515
PWR-R 600	480	120	600 W	12R – 1K2	2800 V \approx	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.

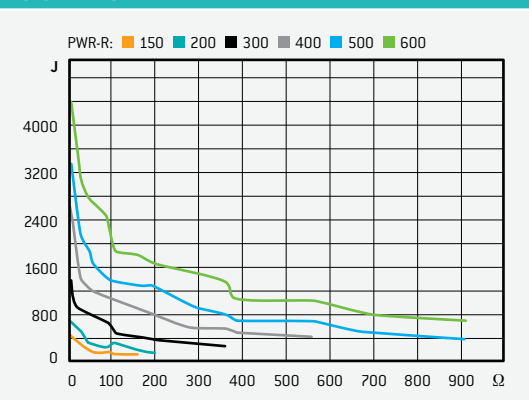
Degree of protection IP55 (opt. IP65)

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

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 500 VDC	≥ 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°C, 600V UL FEP wire line AWG16 style 10203, 200°C, 600V