RXS-L-4500W-4×1.2Ω

High-Voltage Water-Cooled Resistor

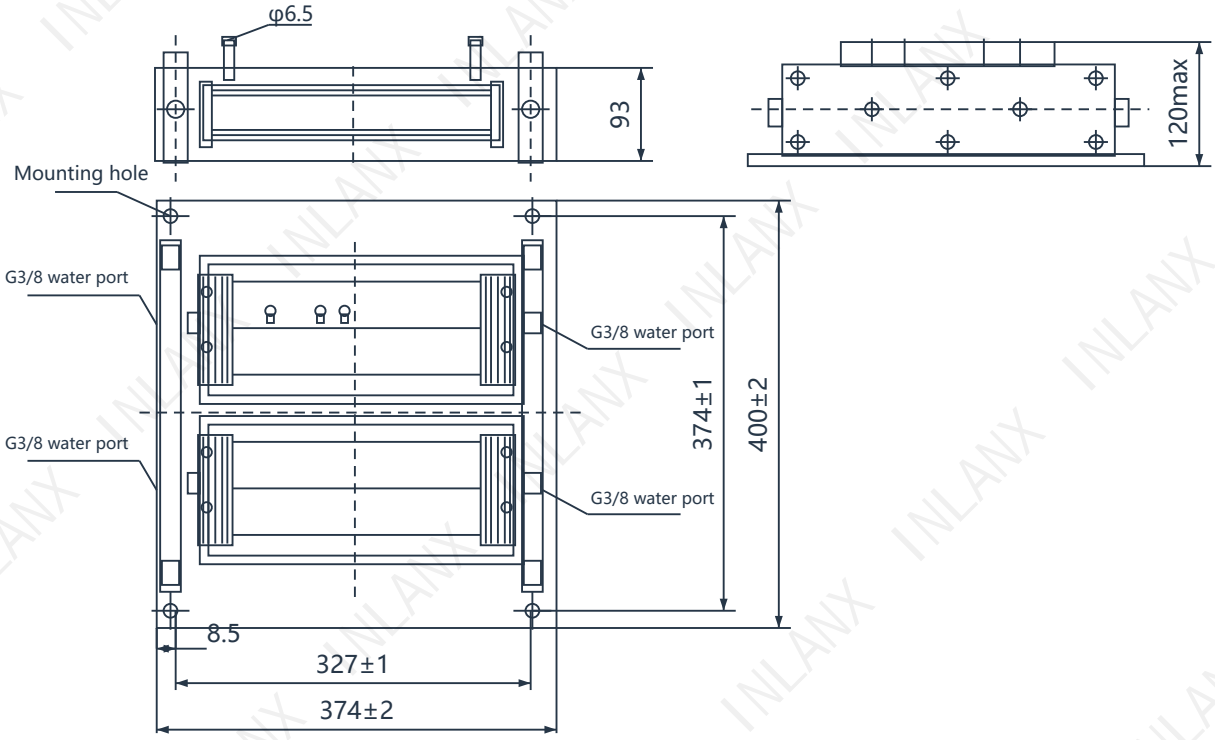
Product Introduction

• Features: Small size and high power. High voltage withstand capability. Water and electrical circuits are separated for convenient installation and use.

• Applications: Voltage division, current shunting and loads in high-power electronic circuits; also suitable for energy absorption.



Dimensions



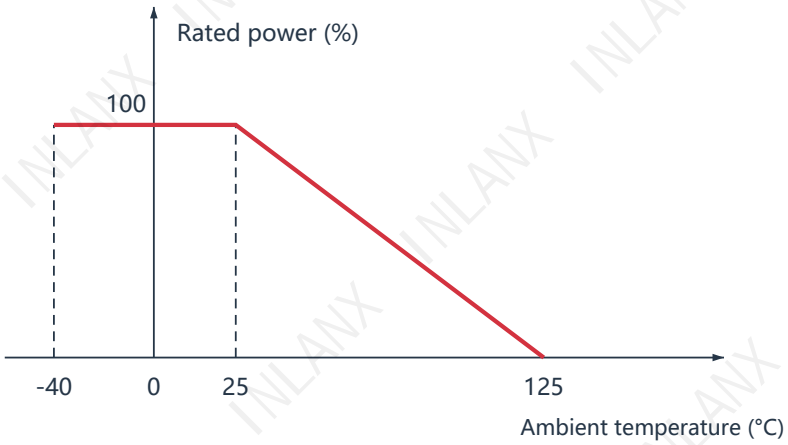
Specifications

Model	Rated power (W)	Resistance range (Ω)	Cooling medium	Medium flow	Medium environment
RXS-L	4500	1~12K	Distilled water, deionized water or a mixture of deionized water and coolant	≥2X8	Temperature range: (-40~+70) °C; altitude: ≤1000m

Main Test Items

Test item	Test conditions	Requirement	Test standard
Leak tightness	Pressure: 0.8Mpa, 1h	No water leakage	
Insulation resistance	(500±50)Vdc, 1min, between terminals and mounting plate	≥1GΩ	GB/T 5729-2003, 4.6
Voltage withstand	10KVdc, 1min, between terminals and mounting plate	No breakdown or flashover	GB/T 5729-2003, 4.7
Temperature rise	Ambient: (15~30) °C, cooling medium, rated power	≤100°C	GB/T 5729-2003, 4.14
Vibration	Frequency: (20~150) Hz, acceleration spectral density level: 0.02g²/Hz, 30min	Seal intact, ΔR≤±(1%R+0.05Ω)	GB/T 2423.11-1997
Steady damp heat	(40±2) °C, relative humidity (93±3)%, 96h	Seal intact, ΔR≤±(5%R+0.1Ω)	GB/T 2423.03-1993
Endurance at room temperature	Ambient: (15~35) °C, cooling medium, rated power, 1.5h on / 0.5h off, 96h	Seal intact, ΔR≤±(5%R+0.1Ω)	GB/T 5729-2003, 4.25

Power Derating Curve



Ordering Example

RXS-L	4500W	4X20Ω	±5%	1000 pcs
Model	Rated power	Nominal resistance	Resistance tolerance	Quantity