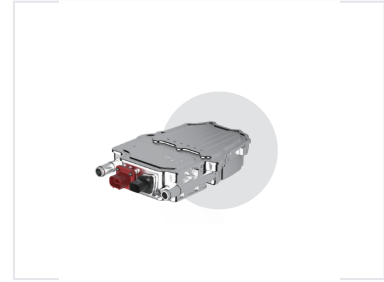


# High Voltage PTC Coolant Heater

This high-voltage PTC coolant heater provides efficient heating for new energy vehicles. It is designed for cabin comfort and battery thermal management in electric and hybrid vehicles.



## Overview

### High Voltage PTC Coolant Heater

This high-voltage positive temperature coefficient (PTC) heater assembly is specifically engineered for thermal management in new energy vehicles (NEV). It provides efficient heating for both cabin comfort and battery temperature regulation using a robust, liquid-cooled design. With self-regulating temperature control, it ensures safety and optimal performance across a wide voltage range.

## Technical Specifications

应用领域 APPLICATION	
新能源汽车 NEV	
主要技术参数 TECHNICAL PARAMETERS	
功率 Power	5000W (±10%) 350V, 10L/min, 60°C
冷却液 Coolant	50 (水Water) + 50 (乙二醇Glycol)
电压范围 Voltage range	250-490V (高压High voltage) 9-16V (低压Low voltage)
压力损失 Pressure loss	Max 20 (10L/min, 0°C)
控制方式 Control mode	PWM
通信方式 Communication mode	LIN2.1
电气强度 Electrical strength	2150VDC, 无放电击穿现象 No discharge breakdown
绝缘电阻 Insulation resistance	1000VDC > 100MΩ
IP等级 IP Level	IP6K9K & IP67
重量 Mass	2.8Kg

Summary of key technical parameters including power, voltage range, and communication protocols.

### Performance Metrics

5000 W

Power Rating

10 L/min

Flow Rate

2.8 Kg

Mass

### Electrical Characteristics

Parameter	Value
High Voltage Range	250-490V
Low Voltage Range	9-16V
Electrical Strength	2150VDC
Insulation Resistance	> 100MΩ (at 1000VDC)

### Operational Details

- Coolant: 50% Water / 50% Glycol
- Control Mode: PWM
- Communication: LIN2.1
- Pressure Loss: Max 20 (10L/min, 0°C)

## Compliance & Environment

### Environmental Protection

IP6K9K • IP67

### Application

NEV, EV, HEV