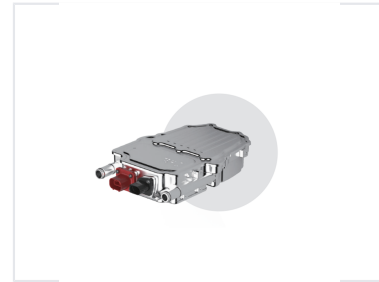


High Voltage PTC Coolant Heater

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