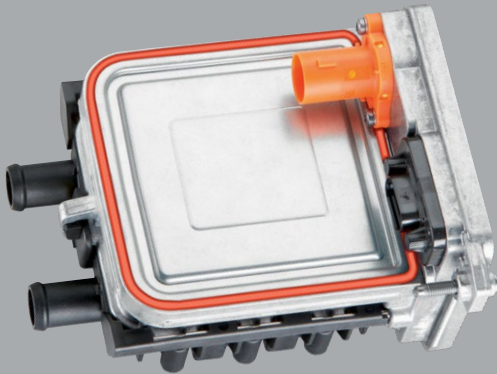


High-voltage coolant heater Titronic CHHV 50 G3



Titronic CHHV 50 G3



TITRONIC CHHV 50 G3 – THE COOLANT HEATER FOR ELECTRIC AND HYBRID VEHICLES:

Users of electric vehicles don't want to go without the comfort of heating that they are used to in combustion engine vehicles. That's why a suitable heating system is just as important as the battery conditioning which helps to extend service life, reduce charging time and increase range.

This is where the third generation of Eberspächer's high-voltage PTC heater comes in, providing the benefits of battery conditioning and heating comfort for special series from body manufacturers and OEMs.

ADVANTAGES:

- Reliable and powerful PTC technology
- Plastic water jacket reduces heat losses to surroundings
- Self-regulating effect inherent in the system ensures safe PTC technology
- Powerful heating performance: from 0% to 100% in 14 seconds (at 0°C)
- Control electronics developed in-house
- Compact and robust design
- Flexible installation position
- Simple system integration

ADDITIONAL FEATURES:

- The interior heating and battery conditioning are carried out via the vehicle's convector
- Control via LIN communication
- Passive interlock for increased safety; the vehicle manufacturer is responsible for connecting the interlock HV safety system

TECHNICAL DATA:

| | | |
|------------------------------|-----|-----------------|
| Operating voltage range (HV) | V | 250–450 |
| Control voltage range (LV) | V | 9–16 |
| Heating performance* | W | 5,000 |
| Heat stages | | 6 |
| Burst pressure | bar | 5 |
| Weight | kg | 2.0 |
| Interface | | LIN 2.1 |
| IP type of protection | | IP6K9K, IP67 |
| Dimensions | mm | 160 x 141 x 105 |
| ISO 26262 | | ASIL A |
| Operating temperature range | °C | –40 to 120 |

* Un = 350 V, Tco = 60°C, Qco = 10 l/min, Coolant = 50:50

RANGE OF FEATURES:

- Voltage measurement
- Current measurement
- Temperature measurement
- LIN communication
- Diagnostics
- Ramp-up feature

SAFETY FEATURES:

- Short-circuit detection
- Overheating detection
- Undervoltage and overvoltage detection
- Open-load detection
- Self-diagnostics