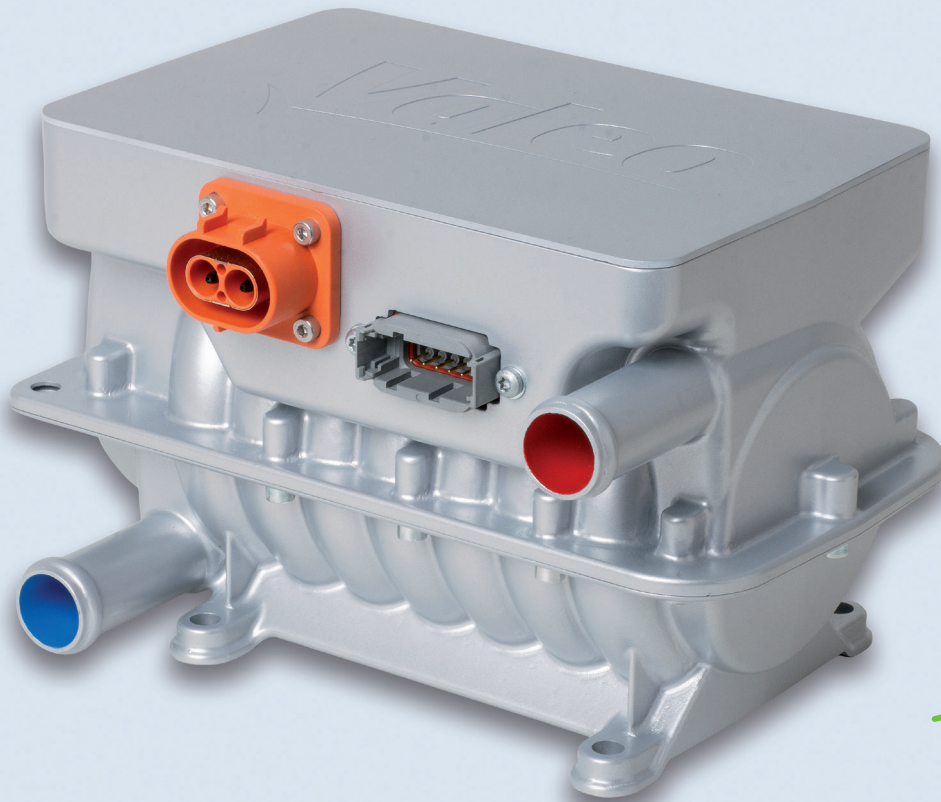


# THERMO HV



## HIGH VOLTAGE FUTURE FOR HIGH END E-BUS HEATING

Thermo HV is the future solution for plugin and e-powered buses and commercial vehicles that quickly, consistently and reliably heats the vehicle interior. The compact device ensures a constantly high heat output of 12kW and allows for flexible use in a power range of 600 to 875 Volts. Thermo HV features infinitely variable heat output control by means of an integral control unit. This takes place either by regulating the water outlet temperature or by limiting the maximum heat output or power consumption.

Furthermore, it is CAN-capable and transmits key operating data to the vehicle system using an intelligent diagnostic function.

# HV HEATER FOR E-POWERED BUSES AND COMMERCIAL VEHICLES

## TECHNICAL ADVANTAGES AND CUSTOMER BENEFITS



### Technical specifications for bus and heavy duty application

- 12 KW heating capacity – stepless regulable performance as needed
- Reliably high heating power in a broad voltage range 450VDC-875VDC without compromising efficiency
- Withstand voltage in peaks up to 1150VDC
- Integrated control board
- CAN communication
- Diagnosis



### Environmentally friendly

- 100% emission-free heating
- Almost noiseless and no annoying exhaust fumes
- Eco mode



### Fast and easy integration

- Low weight, small and smart design easy application, plug & play integration possible
- Modular applicable as one-zone or multi zone-solution (up to 4 units applicable)



### Reliability & Safety

- Multi level safety concept to ensure a reliable heating operation
- Compliant with ISO 26262 (ASIL B)



### Customer benefits

- Powerful and reliable heat output: fast and constant comfort for the driver, passenger and battery system
- Precise and stepless controllability: better performance and optimized power management

## TECHNICAL DATA

	Thermo HV
Heat output (kW)	12 @ 690 VDC
Operating voltage range (VDC)	450 – 875
Nominal Voltage (V)	690
LV	Nominal 24V
Temperature range in operation (°C)	- 40 to + 85
Weight (kg)	4.9
Dimensions L x W x H (mm) w/o connection pipe, connectors	250 x 150 x 150
Control	Step-less via CAN
Protection class	IP 6K9K / IP 67
Safety concept	According to ISO 26262 (ASIL B)



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