

## INVERTER

**MORE POWER | MORE SAFETY | MORE VALUE**



**HVAC/R**

**HOME APPLIANCES**

**PROFESSIONAL APPLIANCES**

Highly efficient control of brushless motors from the start up to high speeds. With more than 25 years of experience in design and production of customized inverters, we provide you with the perfect solution for your products. Our inverter can be found in applications like heat pumps, cooling systems, refrigerated counters and many more.

### Highlights:

- > More than 25 years of experience in inverter design and production
- > Highly efficient control of brushless motors from start to high speeds
- > We enable you to become independent of compressor-, fan- or pump suppliers
- > Cost-optimized solutions for global grid connection requirements
- > Use of component platforms for cost and quality optimization
- > Diehl inverters turn the motor into a sensor for unbalances, torque, etc.
- > Wide portfolio from Single Inverter, Inverter & Power Board to Multi Inverter and Smart Motor
- > Product range from 10 Watt to 10 kW for 1-phase and 3-phase products
- > Production of approx. 10 million inverters per year
- > Design with VDE and UL approval

# TECHNICAL DATA

INVERTER FOR THE INDUSTRIES	HVAC/R E.G. HEAT PUMP	HOME APPLIANCES E.G WASHING MACHINE	PROFESSIONAL APPLIANCES E.G BACKERY OFEN
Power range	50 W up to 10 kW	50 W up to 1 kW	50 W up to 3,5 kW
Operating voltage	100 V - 240 V 380 V - 480 V	100 V - 240 V	100 V - 240 V
EMV mains filter (PFC)	Integrated compliant EN/IEC 61000-3-2 EN/IEC 61000-3-12	Integrated compliant EN/IEC 61000-3-2	Integrated compliant EN/IEC 61000-3-2
Supported motors	Brushless 3-phase motors (Synchronous)	Brushless 3-phase motors (Synchronous)	Brushless 3-phase motors (Synchronous, Asynchronous)
Motor speed control	0 - 1000 Hz Sensorless (Encoderless)	0 - 1000 Hz Sensorless (Encoderless)	0 - 1000 Hz Sensorless (Encoderless)
Functional safety	Motor protection, overpressure and overtemperature Suitable for refrigeration circuit with propane	Motor protection, overpressure and overtemperature Suitable for refrigeration circuit with propane	Motor protection
Temperature range	-30 °C up to 70 °C	-10 °C up to 70 °C	-10 °C up to 70 °C
Interfaces	Customized		
Software	Common software platform, Motor control library (7th generation)		
Service	Variant creation possible in customers production lines		

Subject to change

## CONTACT



**Diehl AKO Stiftung & Co. KG**  
 Tel.-No. +49 7522 73-737  
 Pfannerstraße 75-83  
 88239 Wangen

Further information at:  
[www.diehl.com/controls](http://www.diehl.com/controls)