

**Features**

- ▶ Supply voltage range 6.5V to 27V
- ▶ Sleep mode current less than 50µA
- ▶ Gate drive circuit for three external NMOS power FET half bridges (B6 bridge)
- ▶ Power FET monitoring and protection
  - Cross conduction protection
  - Current overload and short circuit protection
  - Over-/undervoltage protection
  - Overtemperature protection
  - VGS voltage protection / limitation
- ▶ Adjustable slew rate control
- ▶ Gate driver current up to 300mA
- ▶ Charge pump, 100% PWM possible
- ▶ Flyback detection
- ▶ Adjustable differential input current measurement amplifier
- ▶ Control Interface 2.7V up to 5.3V

**Applications**

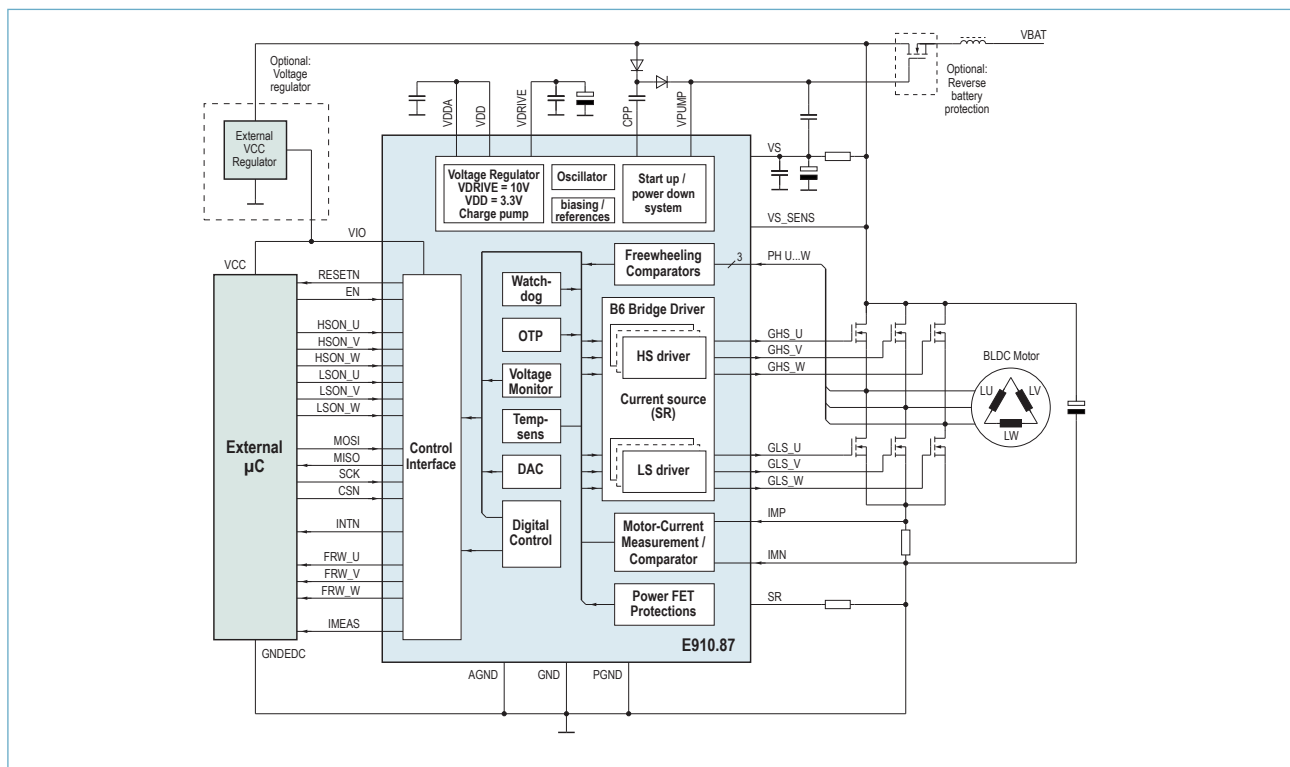
- ▶ Pumps
- ▶ HVAC systems
- ▶ Compressors
- ▶ Fans
- ▶ Automotive applications
- ▶ Industrial machines

**General Description**

The E910.87 is a universal ASSP to drive three independent power FET half bridges. This IC contains all supply, safety and drive functions to drive the n-channel power FET bridges. Three integrated freewheeling comparators allow the application to drive BLDC motors with a sensor less algorithm without additionally comparators.

**Ordering Information**

Product ID	Temp. Range	Package
E910.87	-40°C to +150°C	QFN44L7



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ELMOS Semiconductor AG – Headquarters  
Heinrich-Hertz-Str. 1 | 44227 Dortmund | Germany  
Phone +49 (0) 231-75 49-100 | Fax +49 (0) 231-75 49-159  
sales@elmos.de | www.elmos.de

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