

The C044BG400 IGBT Gate Driver is a low power consumption driver with on board  $V_{CE}$  desaturation detection for high reliability application.

The driver features a fibre-optic communication interface for drive, status and switching feedback signals.

A fully supervised DC/DC converter with EMI filtering, low coupling capacitance and high partial discharge level is integrated into the board.

The high voltage collector sense and gate interface are implemented on a separate card to allow close coupling to the IGBT.



A range of pre-configured boards is available to complement Westcode range of press-pack IGBTs see table below, other applications on request.

Gate Drive Part Number	IGBT Type
➤ New	
➤ C0044BG400SBK	T0160NB45A
➤ C0044BG400SBL	T0240NB45E
➤ C0044BG400SBQ	T0340VB45G
➤ C0044BG400SBA	T0360NB25A
➤ C0044BG400SBB	T0500NB25E
➤ C0044BG400SBE	T0510VB45E
➤ C0044BG400SBF	T0570VB25G
➤ C0044BG400SBM	T0600TB45A
➤ C0044BG400SBG	T0800EB45G
➤ C0044BG400SBN	T0800TB45E
➤ C0044BG400SBH	T0850VB25E
➤ C0044BG400SBP	T0900EB45A
➤ C0044BG400SBR	T1200EB45E
➤ C0044BG400SBC	T1200TB25A
➤ C0044BG400SBD	T1500TB25E
➤ C0044BG400SBJ	T1600GB45G
➤ C0044BG400SBS	T1800GB45A
➤ C0044BG400SBV	T2250AB25E
➤ C0044BG400SBT	T2400GB45E

## FEATURES

- High reliability topology
- Designed for ultra low power consumption
- Built in DC/DC-converter with soft start
- Integrated input filter for low EMI
- Separate low impedance path for parasitic EMI currents
- PD-Voltage levels available up to 11 kV on request.
- Low impedance from gate to emitter at start-up and power fail
- Monitoring of all secondary supply voltages
- Monitoring of IGBT switching status ( $V_{CE}$ -de-sat detection)
- Soft switch-OFF at  $V_{CE}$ -de-sat fault condition
- Fiber-optic links for switching commands and status control
- Low light protection for input signal
- Short-pulse suppression, configurable
- Balanced propagation delay time
- Gate Current up to 44 A
- Optional gate-speed-up capacitors

## APPLICATION

- Large and medium drives
- Renewable generation.
- Utilities scale converters