



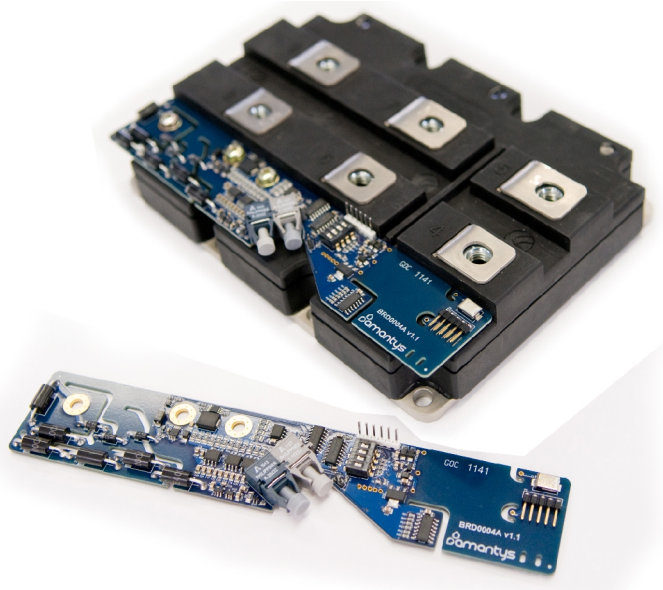
The Amantys Power Drive is a drop in replacement for similar gate drive products in the market, enhanced with a number of beneficial features. Capable of driving a range of IGBT modules from different manufacturers without gate resistor changes, it reduces inventory for users who want flexibility in design and sourcing. The gate drive is suitable for 2-level, 3-level and multi-level converters in a wide variety of applications.

Outline Specification

- Single channel driver
- 3300V IGBT modules from
 - Dynex
 - Toshiba
 - Infineon
 - Mitsubishi
- Current rating to 1500A
- 190x140mm package outline
- Fibre-optic interface
- Isolated power supply
- Two and three-level desaturation protection
- An active clamping mechanism
- Under voltage lockout

Applications

- Locomotive traction
- Medium voltage motor drives
- Wind Turbine Inverters
- High Voltage DC infrastructure



Key Parameters	Min	Typical	Max	Units
Nominal supply voltage	14.5	15.0	15.5	V
Output power		5		W
Supply current (no load)		100		mA
Gate voltage		+/-15		V
Peak output current	-18		+18	A
Max switching frequency		5		kHz
Turn-on delay		400		ns
Turn-off delay		400		ns
Dielectric test voltage	14			kV
Operating temperature	-40		+85	°C
Creepage distance		35		mm
Startup time		10		ms

Benefits

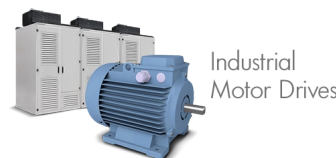
- Simple low component count design
 - High reliability
- Compatible with commercial alternatives
 - Drop in replacement due to same power and fibre-optic interfaces
 - Faster startup and recovery time
 - Lower no-load power dissipation
 - Reduced self-heating for longer lifetime
 - No overhang from module reduces chance of damage during assembly
- Gate drive automatically detects the IGBT module
 - One gate drive for multiple vendor modules reduces inventory
- Built-in isolated power supply
 - Monitors on all rails enabling safe start-up with IGBT held off
 - 3.3kV working voltage isolation, tested to 14kV
 - Meets traction and industrial safety and partial discharge standards



Transportation



Renewables



Industrial Motor Drives



Power Grid