



IGBT Driver User Manual

Document No.: JP-IGBT-UM-001

Revision: 1.0

1. Introduction

The Janason Powelec IGBT Driver is designed for driving high-power IGBT modules used in industrial power conversion systems. It provides isolated gate drive for reliable and safe operation in industrial applications.

2. Features

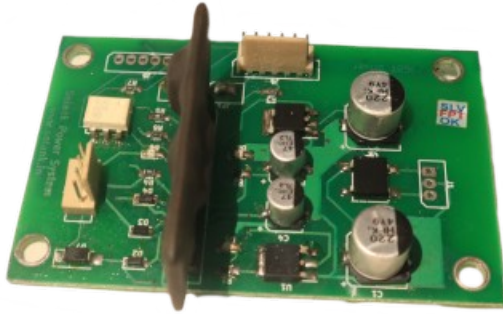
- Optical isolation
- Industrial-grade PCB
- Compact design
- High reliability
- Microcontroller compatible PWM input
- LED power indication

3. Applications

- Variable Frequency Drives
- UPS Systems
- Solar Inverters
- Battery Chargers
- BLDC Motor Controllers

- Industrial Automation

4. Board Overview



5. Connector Description

IGBT Driver Card Connection Details

Connector Name	Pin No	Connect to
J1	1	18V AC
	2	0V
	3	18V AC
J3	1	Collector
	2	NC
	3	Gate
	4	Emitter
J2	1	Signal Input
	2	GND
	3	
	4	
	5	
	6	
Janason Powelec		
www.janason-powelec.in		
Kadal Amutham vkadal@gmail.com 91 9444360480		

6. Power Supply

Apply only the recommended supply voltage. We can also supply the power supply transformer if required.

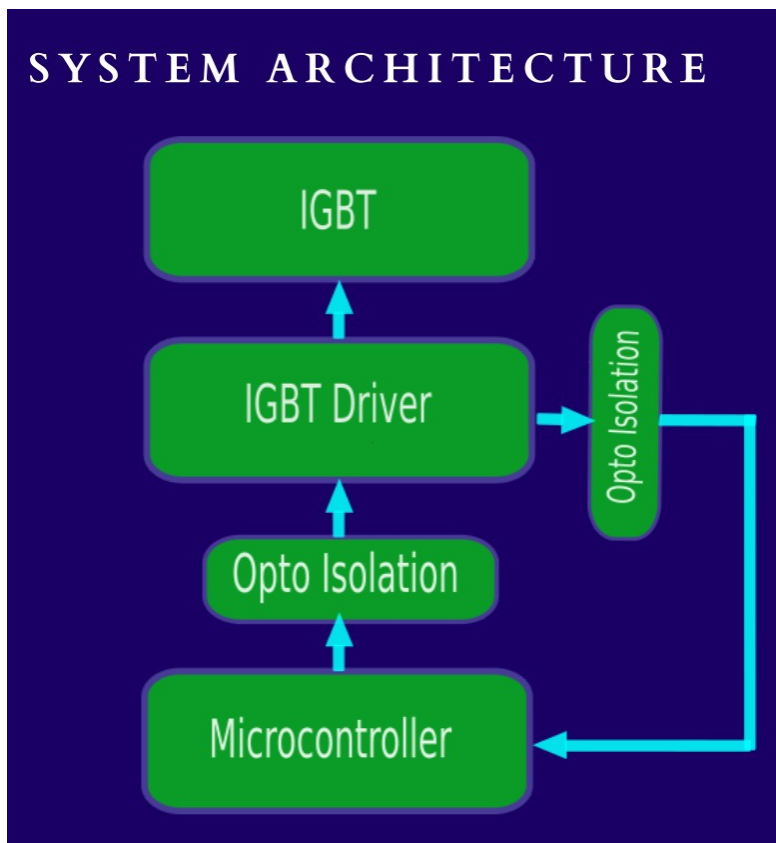
7. PWM Input

Accepts logic-level PWM signals from Arduino, STM32, PIC, dsPIC, ESP32 and similar controllers.

8. Protection

Includes isolation and hardware protection for reliable operation.

9. Typical Connection



10. Precautions

- Verify wiring before power-up.
- Observe ESD precautions.
- Disconnect power before making connections.

11. Troubleshooting

- No Output: Check supply.
- No Switching: Verify PWM input.
- Excess Heating: Check gate wiring and load.

12. Ordering Information

Product: IGBT Driver

Part Number: JP-IGBT-01

13. Contact

Janason Powelec

Website: www.janason-powelec.in