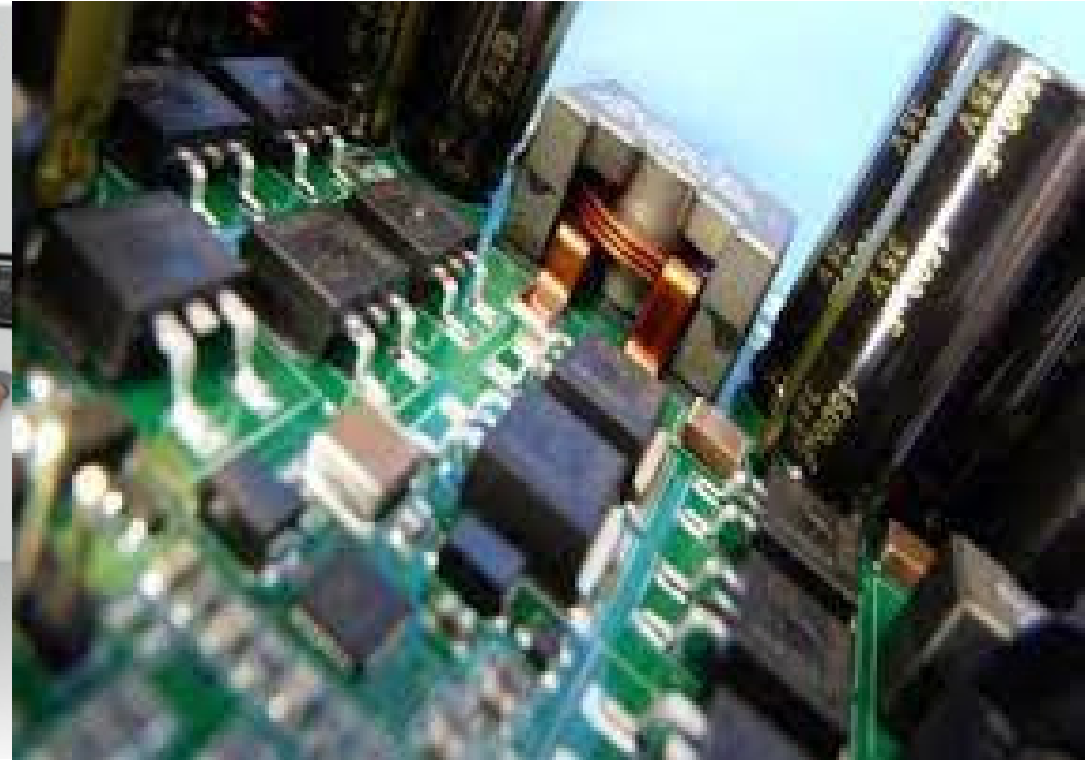
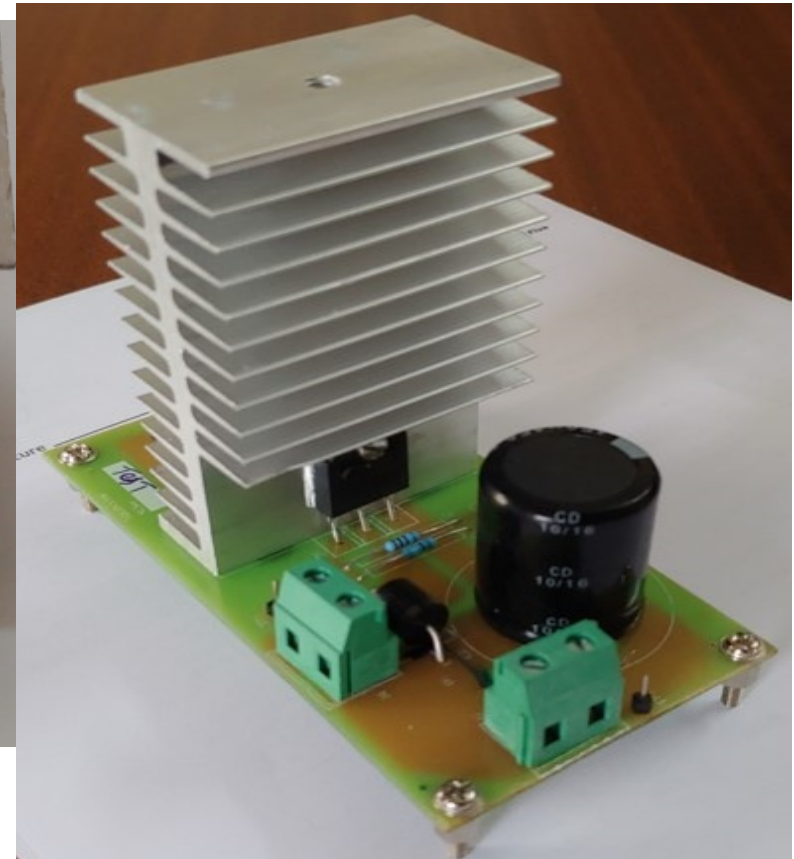
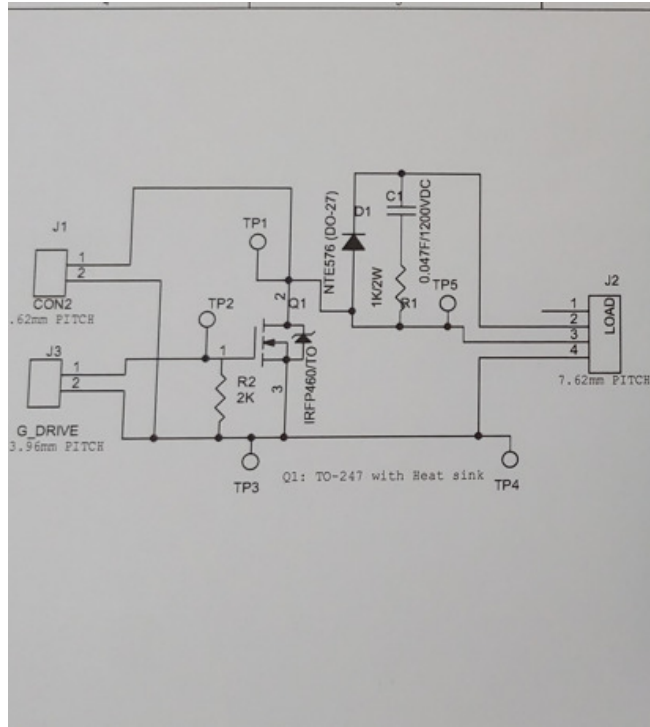


# Custom Power Electronics Modules



**Ademtek** provides custom power electronics hardware solutions to universities and research institutions, reducing their development time and R&D Cost. Our hardware is customized to interface directly with the controller of your choice giving you a ready to use solution directly out of the box. With professional wiring and build quality to reduce failure and safety hazards. If you are working on a research project or setting up a power electronics lab, our solutions will suit your needs perfectly.

# Single MOSFET/IGBT Brick Module, Model: ADSSW



## Features

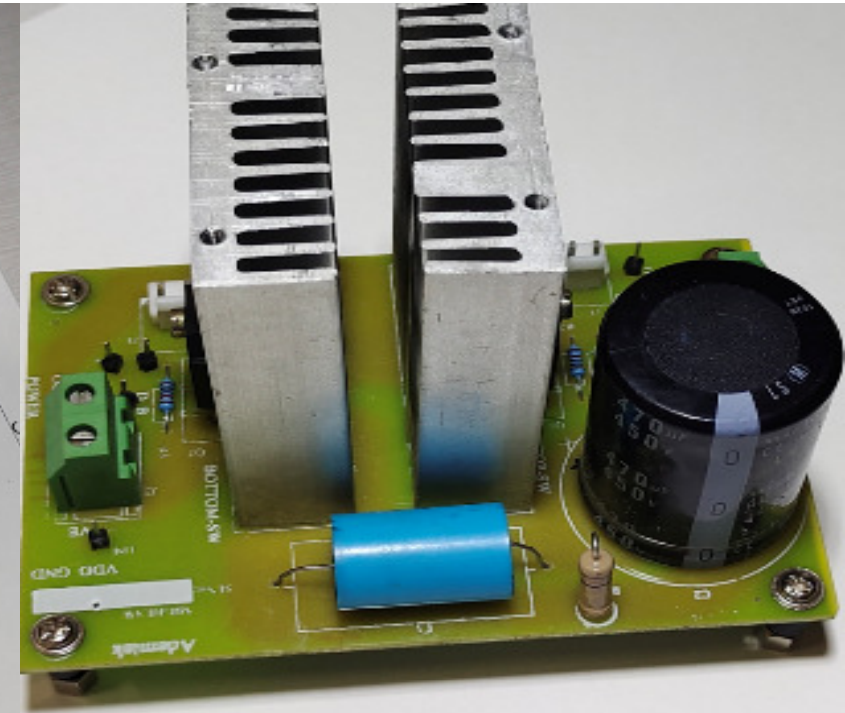
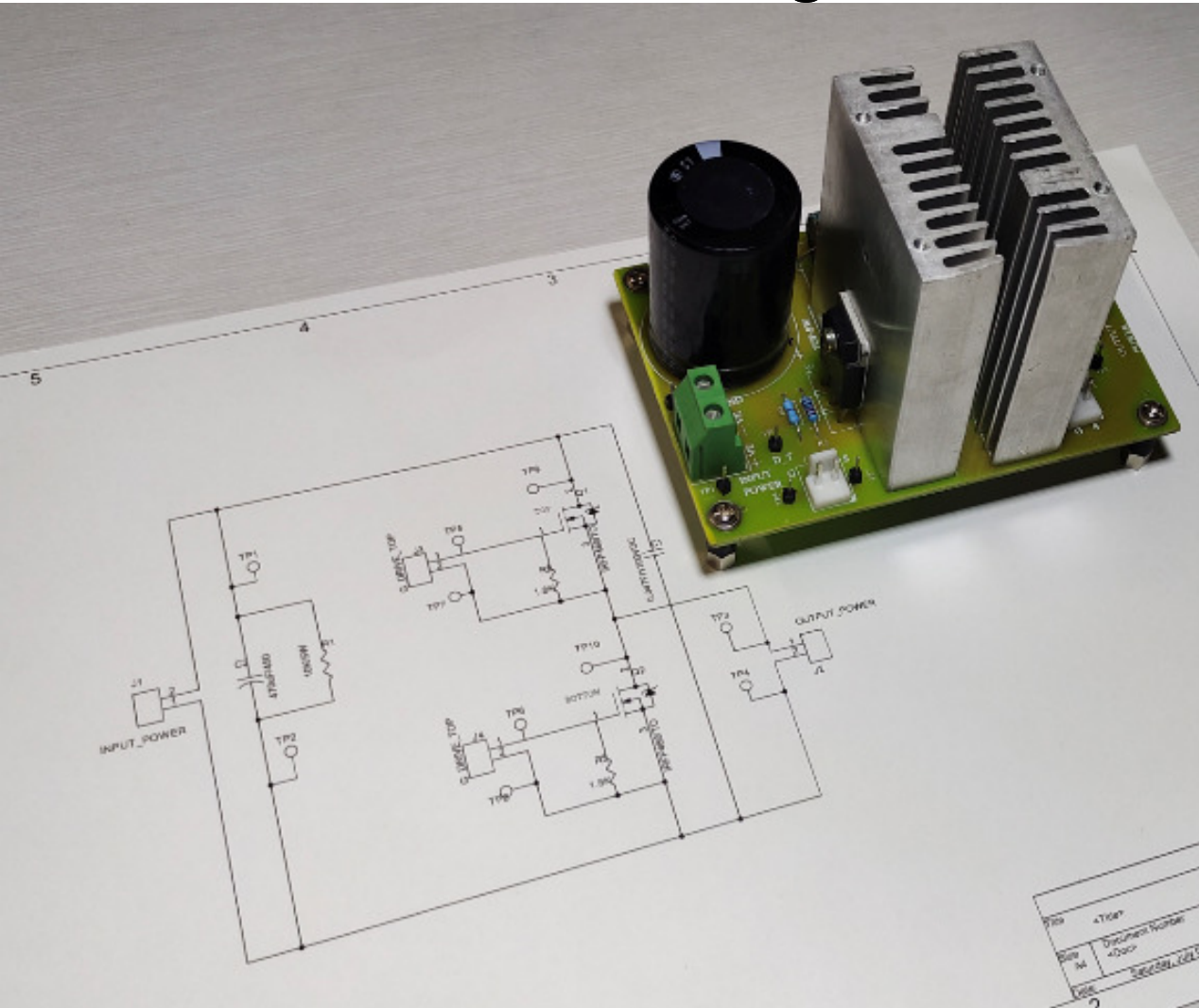
- IGBT: FGA25N120ANTD IGBT – 600V/1200V, 43A NPT Trench IGBT
- 150uF/220uF/450uF/450V DC Link Capacitor
- MOSFET: IRFP460 - 500V 20A N-Channel Power MOSFET TO-247
- Ultra fast recovery 6A, 800V RC Free-Wheeling Diode
- 1kOhm/5W, 22nF/1000V RC Snubber

## Applications

- Buck, Boost, Fly-back Converters, Motor and solenoids driving

**Cost: Rs2100/Unit**

# IGBT/MOSFET Half Bridge Brick Module, **Model: ADHBSW**



## Features

- DC Link Capacitor: 470uF/450V
- MOSFET: IRFP460 - 500V 20A N-Channel Power MOSFET TO-247
- IGBT: FGA25N120ANTD IGBT – 600V/1200V 43A NPT Trench IGBT
- 100nF/1000V Snubber Capacitor

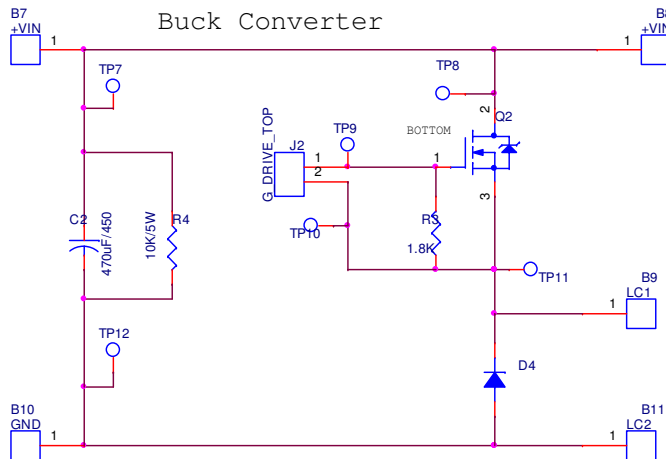
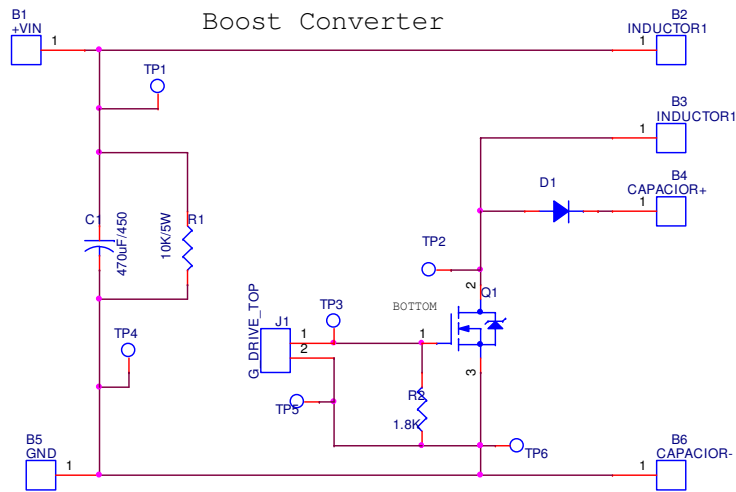
## Applications

- Buck Converter
- Boost Converter
- Inverter
- Motor and solenoids driving

**Cost: Rs2700/Unit**

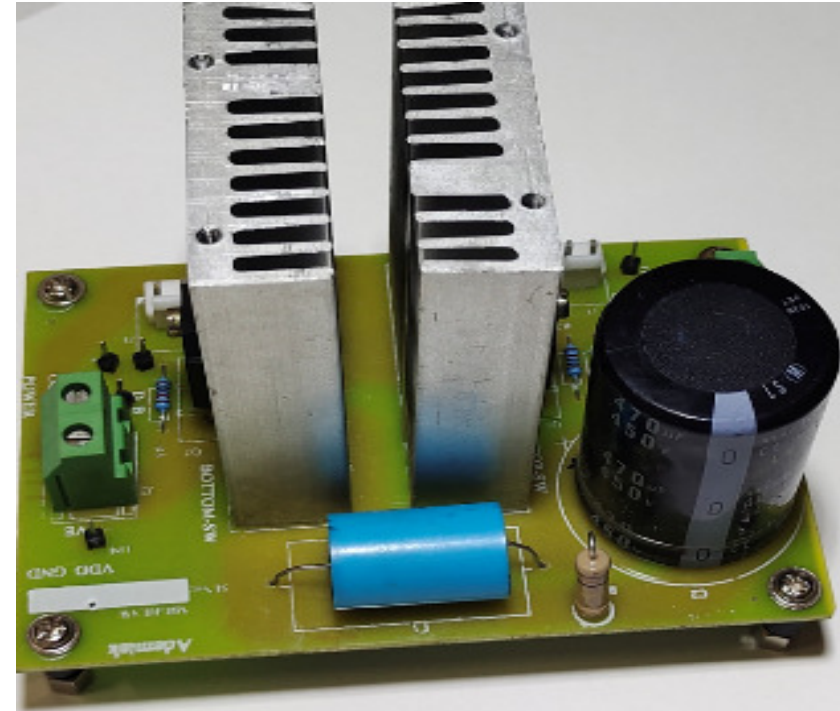


# IGBT/MOSFET Buck & Boost Brick Module, **Model: ADBBSW**



## Features

- DC Link Capacitor: 470uF/450V
- MOSFET: IRFP460 - 500V 20A N-Channel Power MOSFET TO-247
- IGBT: FGA25N120ANTD IGBT – 600V/1200V 43A NPT Trench IGBT
- RHRG5060 Fast / Ultrafast Diode, 600 V, 50 A, Single, 2.1 V, 50 ns, 500 A



## Applications

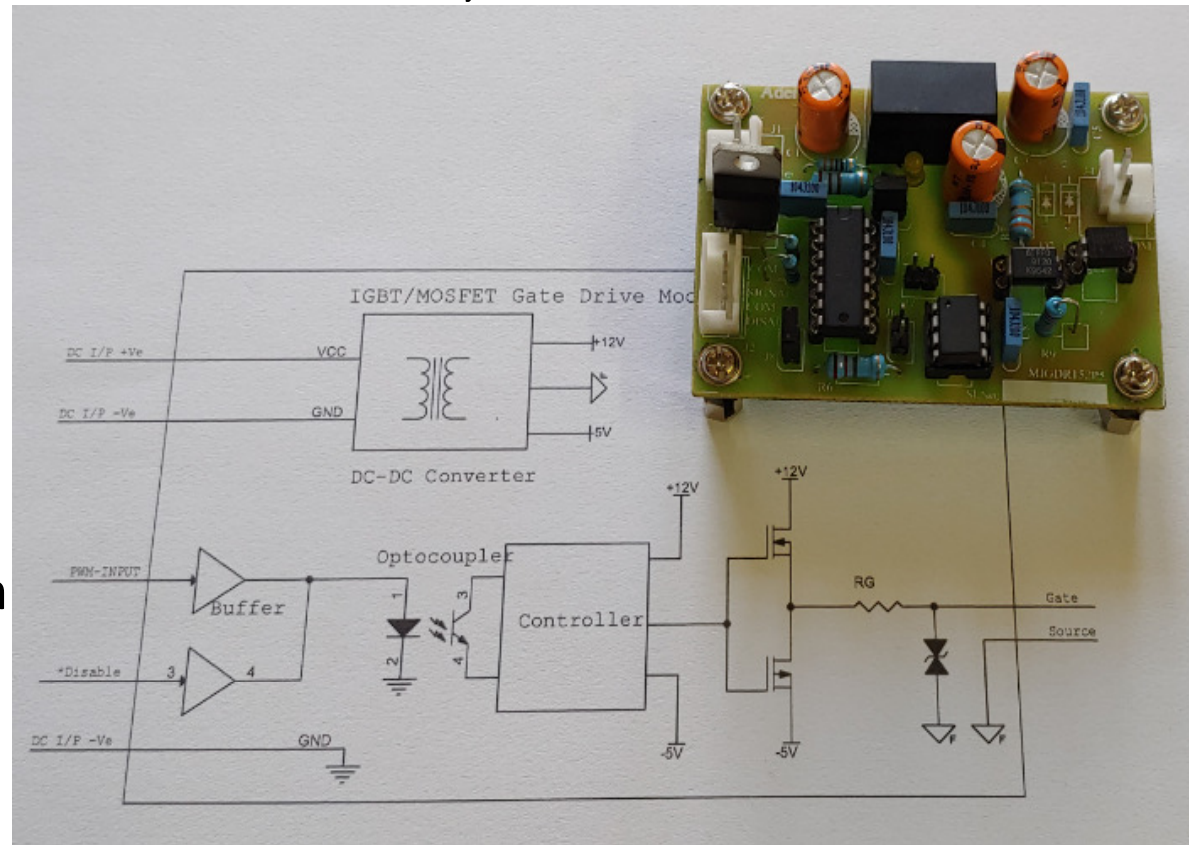
- Buck Converter
- Boost Converter

**Cost: Rs2700/Unit**

# Single Switch IGBT/MOSFET Gate Driver, **Model: ADSSWGD**

## Features

- High Isolation voltage of 1.5kV.
- 3.3V/5V logic input PWM
- Small time delay (max. 350nsec).
- Switching frequency up to 500 ns
- Dual output DC-DC Converter
- 8-A Peak Source & Sink Currents
- Under voltage lock-out protection



**Description:** Single switch fully isolated IGBT/MOSFET gate drive module with high isolation level

## Applications:

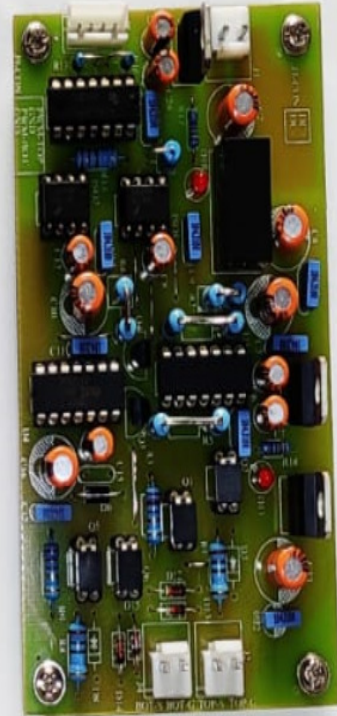
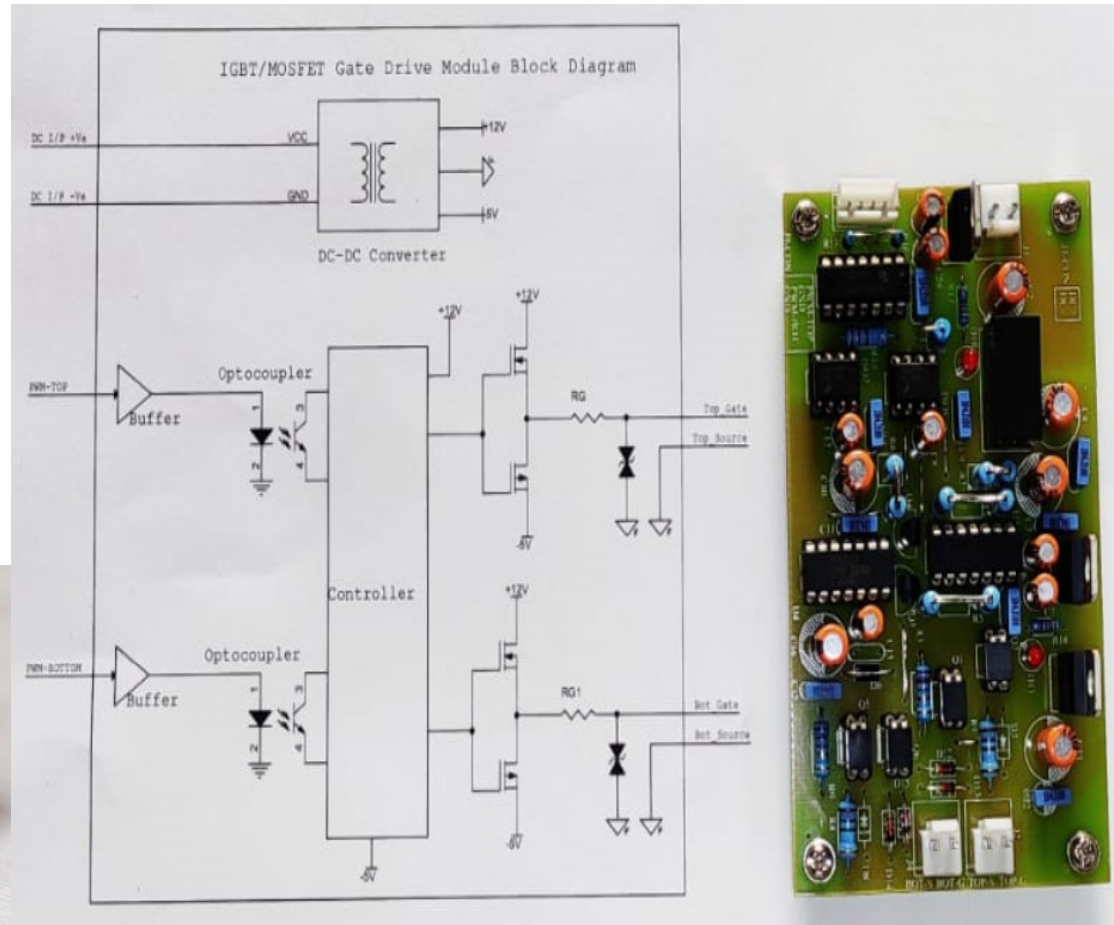
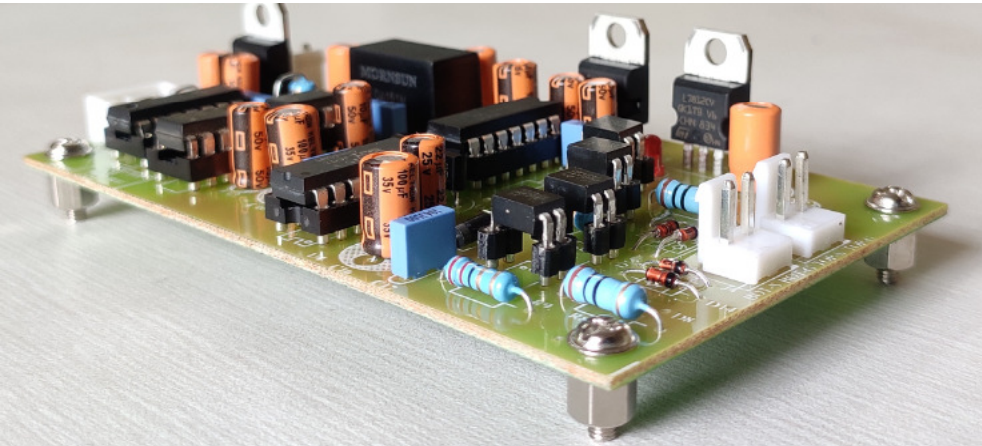
Suitable for gate driving for IGBT and MOSFET up to 1200V/100A (discrete or modules) in wide range of applications like AC motor drives, Buck converters, Boost converter, SMPS, UPS, .... etc.

**Cost: Rs2000/Unit**

# Half Bridge IGBT/MOSFET Gate Driver, Model: **ADHBSWGD**

## Features

- 500 V high-side & low-side gate driver
- High Isolation voltage of 1.5kV.
- 3.3V/5V logic compatible PWM
- Outputs in phase with inputs
- Shoot through protection
- Dual O/P +12V, -5V DC-DC Converter
- Separate logic supply range
- 8-A Peak Source & Sink Currents



**Description:** Single switch fully isolated IGBT/MOSFET gate drive module with high isolation level

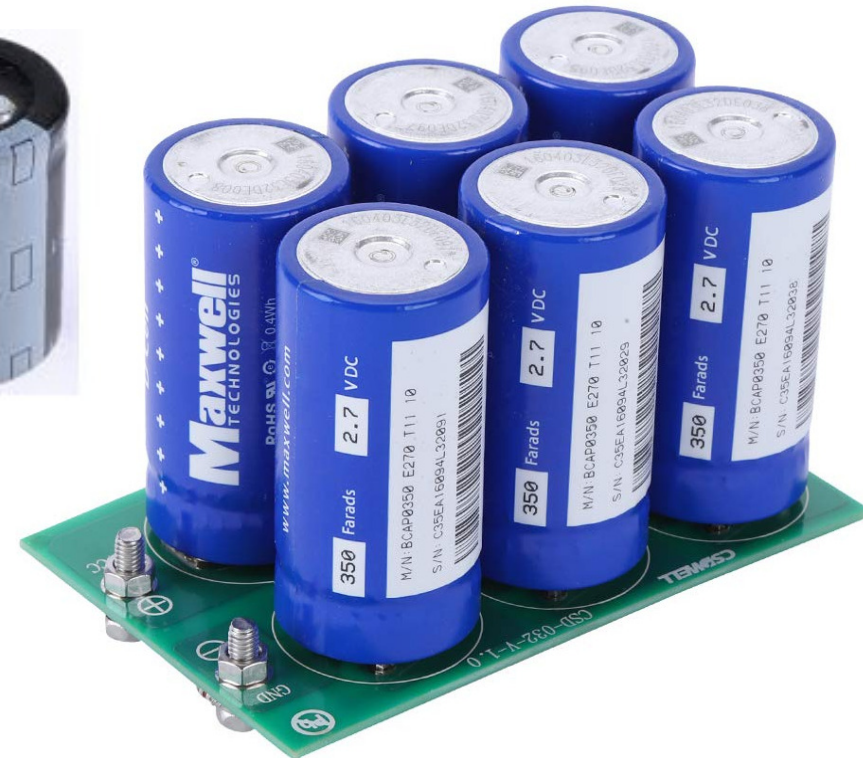
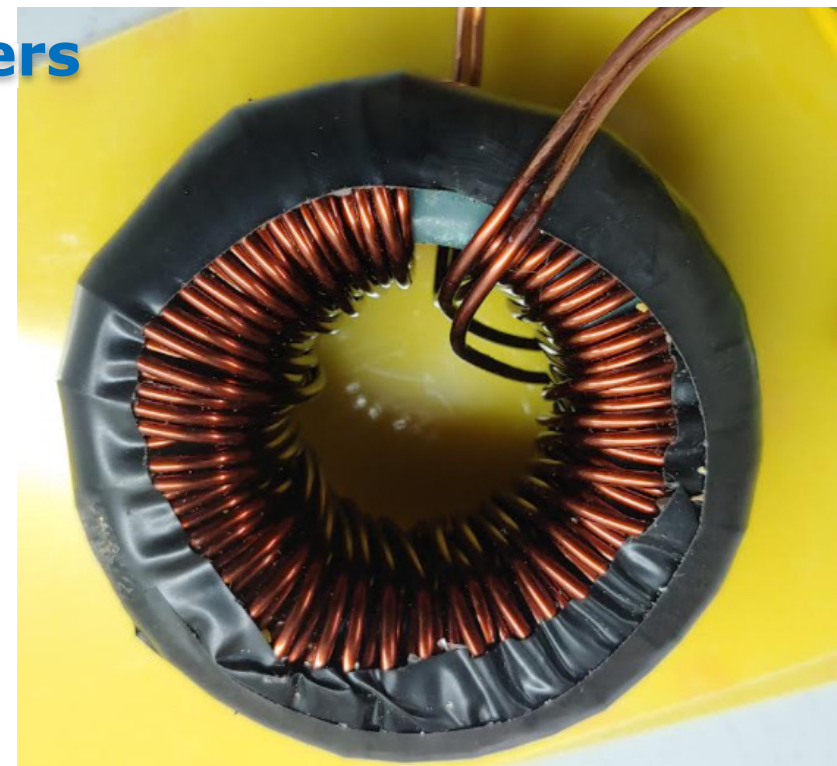
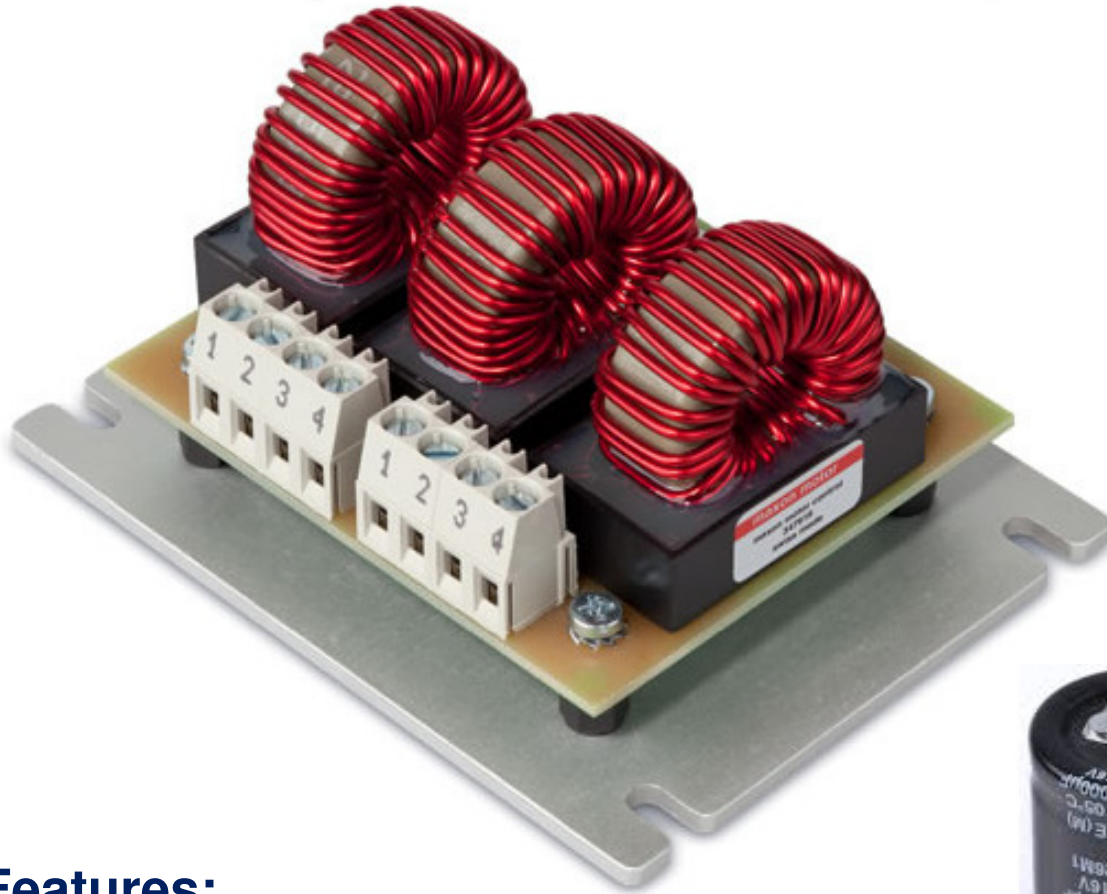
## Applications:

Suitable for gate driving for IGBT and MOSFET up to 1200V/100A (discrete or modules) in wide range of applications like AC motor drives, Buck converters, Boost converter, SMPS, UPS, .... etc.`

**Cost: Rs2500/Unit**



# LC Modules for Buck & Boost Converters (Model: ADLBB/ADCBB)



## Features:

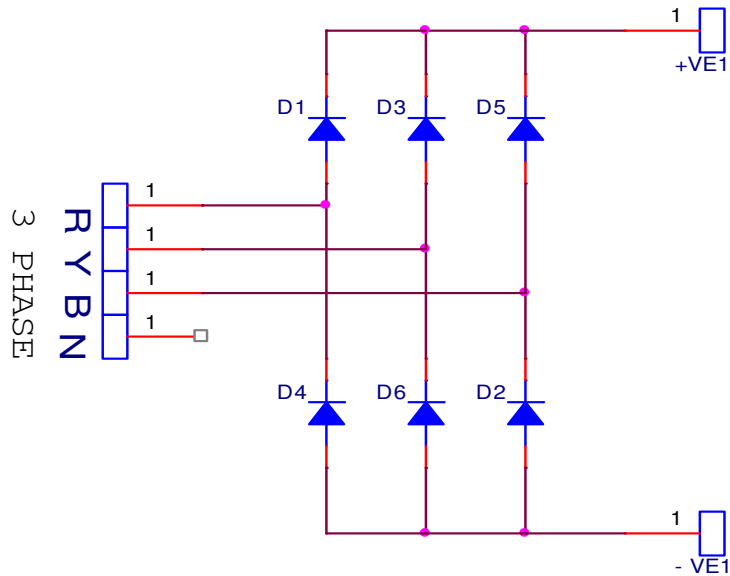
- Customized Inductors range from  $\mu\text{H}$  to  $\text{mH}$ , 1Amp to 20Amp
- Customized Capacitor Bank range from  $\mu\text{F}$  to  $\text{mF}$ , 25V to 450VDC
- Connecting Terminals

**C Module Cost: Rs500-2700/Unit**

**L Module Cost: Rs500-1700/Unit**

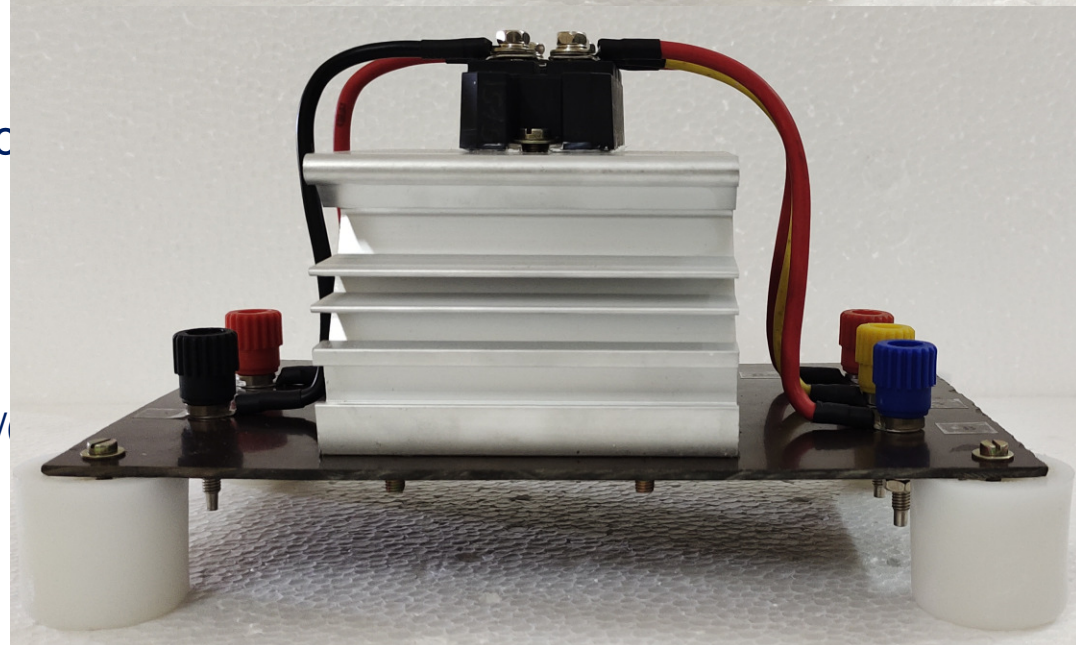
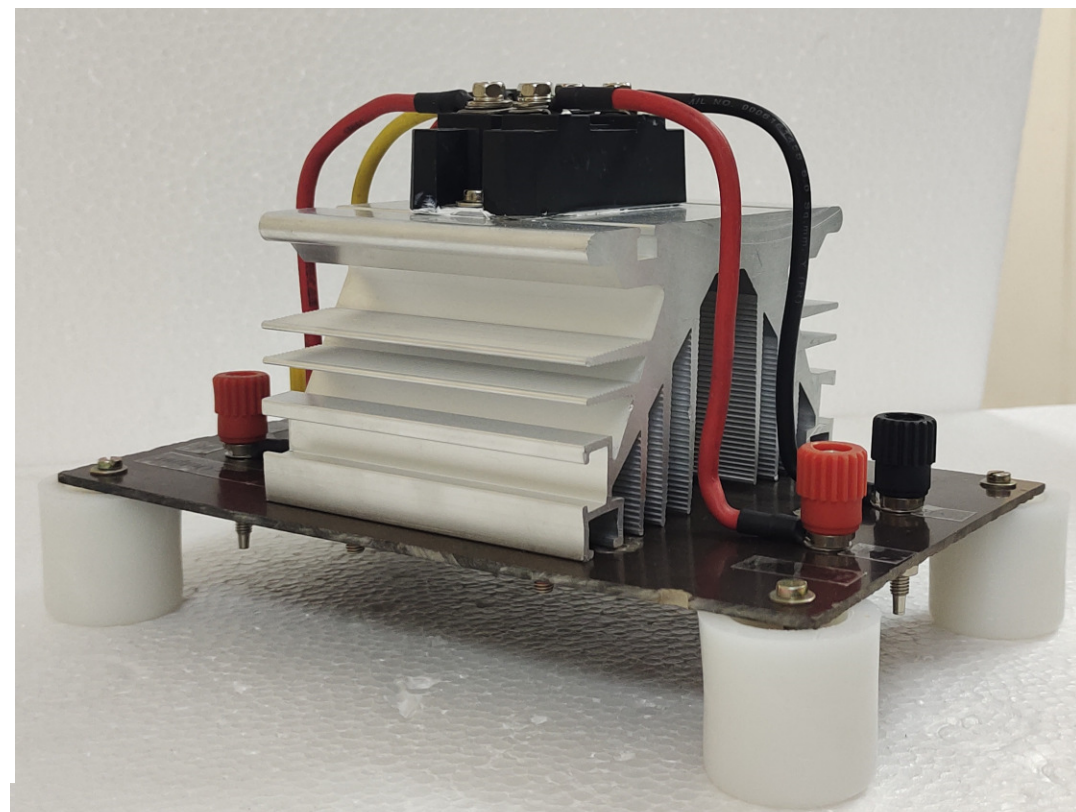


# 1Phase/3Phase Rectifier (Model:AD1PHREC/AD3PHREC)



## Features:

- 50/100A, 1000V/1600V, 1Phase 3phase Rect Modules
- Heat Sink for Thermal Management
- BT 30 terminal for easy connections
- Option1: Volt and Current meter
- Option2: 4 Pole 4phase MCB for Power ON/Over load and short Circuit Protection
- Optional3: Inrush Current limit switch with Programmable timer



**3Phase Rectifier Cost: Rs2500/Unit**

**1Phase Rectifier Cost: Rs1500/Unit**



# Programmable DC Power Supply

## Features

- Input voltage range: 170V-270VAC, 50Hz
- Output Voltage Range: 0-60VDC
- Output Current Range: 0-3A/6A/12A/18A
- Output voltage accuracy:  $\pm(0.3\%+3 \text{ digits})$
- Output ripple typical: 100mV VPP
- Keypad + encoder potentiometer combination adjustment
- Data quick storage & recall
- New PC software
- Wi-Fi connection, Phone APP control

Cost: Rs25000/Unit



### PC Software Control

You can remotely monitor and set the digital power supply on your computer, friendly user interface, powerful functions, convenient to use.

