



**SG POWER**  
PRODUCTS PRIVATE LIMITED  
EVOLUTION THROUGH TECHNOLOGY



# IGBT POWER RECTIFIER

## IGBT POWER RECTIFIER - (AIR COOL & OIL COOL)

Available range from 12 V to 24 V & 500 Amp to 5000 Amp

**SG Power Products**, founded in 2013 by a team of seasoned engineers and technologists, focuses on designing high-quality rectifiers for industrial applications. Over the years, we expanded our product portfolio to include complete Electroplating plants, offering turnkey solutions from design to installation and maintenance.

*Where Value Combine With  
Commitment To Other Energy  
Efficient Products And Solutions*



## IGBT POWER RECTIFIER- (AIR COOL & OIL COOL)

Available range from 12 V to 240 V & 500 Amp to 5000 Amp

SG Power Products IGBT Rectifiers are designed for high-efficiency, compact, and precise DC power supply in electroplating and metal finishing applications. These rectifiers ensure stable output with high-speed switching technology and are ideal for 24×7 operation in rugged industrial environments.

### ADVANTAGES

- Microprocessor-based IGBT Switching
- Up to 40% Power Saving with High Efficiency
- Light Weight & Compact Modular Design
- Optional RS-485 / Modbus / PLC Interface
- Fast Polarity Reversal (Optional)

### OPTIONAL FEATURES

- Constant Voltage & Current Controller (CVC & CCC)
- Data logging via USB or Ethernet
- Programmable Timer & Ramp-up / down feature
- Touch screen HMI interface
- Remote monitoring and lot integration

### TECHNICAL SPECIFICATIONS

- Input Voltage: 3 Phase, 415V AC, 50Hz
- Output Voltage: 0 – 12V / 24V / 48V / 100V DC (Customizable)
- Output Current: 100A to 5000A or more as per requirement
- Ripple: <2% (standard), <1% (optional)
- Cooling: Air cooled / Oil cooled (based on rating)
- Efficiency: >90% (up to 97% based on Model)
- Operating Mode: Manual / Semi-Automatic/Automatic via PLC



### APPLICATIONS

- Electroplating (Zinc, Chrome, Nickel, Gold, Copper etc.)
- Anodizing and Electro-polishing
- CED / Electrophoretic Coating
- Hydrogen Generation Plants
- Etching & Electro-Forming
- Printed Circuit Board (PCB) Plating
- Electrochemical Process Plants
- Decorative & Functional Finishing
- Renewable & Lab-Testing Applications
- Automation-Integrated Plating Systems

### MODELS AVAILABLE

Model	Voltage	Current	Cooling Type	Dimensions (LxWxH)	Weight
IGBT-12/500	12V	500A	Air Cooled	17" x 8" x 15"	45 Kg (Approx)
IGBT-12/1000	12V	1000A	Air Cooled	21" x 10" x 18"	47 Kg (Approx)
IGBT-12/1500	12V	1500A	Oil Cooled	21" x 23" x 27"	55 Kg (Approx)
IGBT-12/5000	12V	5000A	Oil Cooled - Dimer	50" x 67" x 49"	1100 Kg (Approx)
IGBT-12/5000	12V	5000A	Oil Cooled - Rectifier	70" x 53" x 54"	1600 Kg (Approx)
IGBT-12/5000	12V	2000A	Oil Cooled - Rectifier	34" x 48" x 46"	1100 Kg (Approx)



...many more

## SG POWER PRODUCTS PRIVATE LIMITED

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