



**dynalektric** <sup>®</sup>  
POWER | MOTION | SAFETY



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## About Dynalektric

Dynalektric Equipment Private Limited (DEPL) is envisioned to be a high-technology product & and solution provider for Busbars and Transformers (Dry-Type VPI based Oil Cooled), Control Transformers, Distribution Oil Cooled Transformers, Power Transformers, Chokes, Reactors, Inductors, and Control Panel assemblies.

We are a DPIIT (Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry, Government of India) certified company (Certificate No DIPP60594) under STARTUP INDIA in the field of Technology Hardware Industry and manufacturing. We are also a certified MSME as a Manufacturing Enterprise under Udyog Aadhaar (UAM No. KR0380122808).

# OUR PRODUCTS

## THYRISTOR/SCR CONTROL FCB BATTERY CHARGER

Dynalektric offers unparalleled flexibility in adjusting the output settings of their battery chargers to accommodate various battery types, considering the unique charging characteristics of each battery through the utilization of suitable control cards. Moreover, they provide a wide array of options and accessories for personalized configuration of the battery charger system.

|               |                          |
|---------------|--------------------------|
| Input Rating  | 4A, 250V AC              |
| Output Rating | 12V to 440V DC Upto 500A |
| Frequency     | 50Hz                     |
| No Of Phases  | 1 Phase                  |
| FV & BV       | 50-75 VDC                |



## APPLICATIONS

- ◆ Telecommunication
- ◆ Oil and Gas Industry
- ◆ Power Plant Industry
- ◆ Industrial Automation
- ◆ Transportation

## FEATURES

- ◆ Internal Isolation Transformer: Incorporates an internal isolation transformer at the input for enhanced safety and protection
- ◆ Automatic and Manual Charging Modes: Supports both automatic and manual charging modes for flexible operation based on user preferences or specific needs
- ◆ Low Output Voltage Ripple: Maintains low output voltage ripple, ensuring a stable and consistent charging process
- ◆ High Efficiency: Achieves high charging efficiency, minimizing energy wastage and optimizing the overall charging process

## IGBT CONTROL FCB BATTERY CHARGER

Dynalektric is proud to present our cutting-edge IGBT-controlled float cum boost battery charger. As a trusted manufacturer, we deliver high-quality battery chargers designed to provide reliable power supply and efficient charging for critical applications.

|               |                           |
|---------------|---------------------------|
| Input Rating  | 4A AC, 250 VAC            |
| Output Rating | 12V to 450V DC Upto 2500A |
| Frequency     | 50Hz                      |
| No Of Phases  | 1 Phase                   |
| FV & BV       | 50-75 VDC                 |



### APPLICATIONS

- ◆ Telecommunication
- ◆ Data Center
- ◆ Renewable Energy System
- ◆ Uninterruptible Power Supply (UPS)
- ◆ Electric Vehicles (EV's)
- ◆ Health Care Facilities
- ◆ Steel and Cement Plant
- ◆ Petrochemicals

### FEATURES

- ◆ High Efficiency: Achieves high charging efficiency, converting a significant portion of input power into usable charging power
- ◆ Low Output Voltage Ripple: Maintains low output voltage ripple, ensuring stable and clean power delivery to the critical load
- ◆ Seamless Power Supply: Provides uninterrupted DC power supply to critical loads, ensuring continuous operation without any power interruptions
- ◆ Intelligent Monitoring and Protection: Incorporates intelligent monitoring systems to monitor the charging process in real-time and includes protection features such as over-voltage, over-current, and short-circuit protection

## SCR CONTROL DC RECTIFIER SYSTEM

Dynalektric is a leading manufacturer of SCR-controlled DC rectifier systems. With our expertise and commitment to excellence, we deliver reliable and high-performance solutions for a wide range of applications. Our SCR-controlled rectifier systems are designed to provide efficient and precise DC power conversion, ensuring optimal performance and reliability.

|               |                         |
|---------------|-------------------------|
| Input Rating  | 82A AC, 415VAC          |
| Output Rating | 12V - 750V DC Upto 10KA |
| Frequency     | 50Hz                    |
| No Of Phases  | 3 Phase                 |



### APPLICATIONS

- ◆ Electroplating and Metal Finishing
- ◆ Electrowinning
- ◆ Electrolysis
- ◆ Welding and Cutting
- ◆ DC Power Supply for Test and Measurement
- ◆ DC Traction Systems

### FEATURES

- ◆ High Efficiency: Offers high power conversion efficiency, minimizing energy wastage and reducing operating costs
- ◆ Remote Monitoring and Control: Equipped with remote monitoring and control capabilities for real-time monitoring, diagnostics, and performance optimization
- ◆ Comprehensive Protection: Incorporates comprehensive protection mechanisms, including over-current, over-voltage, short-circuit, and thermal protection, ensuring safe and reliable operation
- ◆ Wide Input Voltage Range: Supports a wide input voltage range, allowing for flexibility in various power supply configurations

## IGBT CONTROL DC RECTIFIER SYSTEM

Dynalektric's IGBT Rectifiers are specifically engineered to meet the demanding requirements of industrial applications. These rectifiers utilize advanced technology such as Insulated-Gate Bipolar Transistors (IGBTs) to enable high-frequency switching and pulse width modulation (PWM) for precise voltage and current regulation. In contrast, traditional silicon-controlled rectifiers (SCRs) employ low-frequency switching and phase shift technology.

|               |                        |
|---------------|------------------------|
| Input Rating  | 4A AC, 250 VAC         |
| Output Rating | 12V-450V DC Upto 5000A |
| Frequency     | 50Hz                   |
| No Of Phases  | 3 Phase                |



### APPLICATIONS

- ◆ Single Phase AC Heating
- ◆ Wastewater Treatment
- ◆ Inductive Heating
- ◆ Surface Coloring
- ◆ Cathode Electro Deposition (C.E.D. Coating)
- ◆ Electrolysis Refining



### FEATURES

- ◆ Low Pressure Drop
- ◆ High Stability
- ◆ Highly Efficient
- ◆ Current Control or Voltage Control operation mode
- ◆ 99% Precision on entire range
- ◆ Current Ripple less than 2.0% of rated output current in current operation mode





# CONTACT US

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