

We Provide Solutions....





HIGH FREQUENCY AC POWER SUPPLY

GROW CONTROL is a research-driven power electronics organization that integrates technology, innovation, and engineering to transform concepts into world-class products and solutions.

The High-Frequency AC Power Supply developed by *GROW CONTROL* is designed to provide precise control over both voltage and frequency, meeting the power requirements for a wide range of industrial, research, and testing applications. Built with cutting-edge control technology, the power supply ensures high efficiency, compact design, and stable output.

Key Advantages

1. Indigenous Technology:

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Completely designed and manufactured in India, *GROW CONTROL* High Current DC Power Supplies deliver solutions optimized for domestic industrial, research, and defense needs.

2. Precision and Stability:

The power supplies deliver precise voltage and current with low ripple and noise, essential for high-accuracy applications like battery testing, electroplating, and electrochemical processing.

3. Energy Efficient:

With high efficiency, these power supplies reduce operational costs by minimizing energy losses and heat output, leading to longer-lasting components and fewer cooling requirements.

4. Advanced Protection:

Built-in safety mechanisms, including over-voltage, over-current, and thermal protection, ensure reliable performance in demanding applications.

5. Customizable Configurations:

GROW CONTROL offers flexible options in terms of voltage, current range, and form factor, ensuring that each unit meets the unique requirements of its intended application.



Applications

1. Electroplating:

Provides stable, high frequency AC power for electroplating applications, ensuring even coating and improved process efficiency.

2. Battery Testing and Charging:

Ideal for battery testing and formation, supporting high current requirements with precise control over voltage and current for accurate results.

3. Laser Systems:

Supplies clean, stable DC power for high-power laser systems used in defense, research, and industrial applications.

4. Electrochemical Processing:

Supports applications like electrolysis and anodizing, delivering stable and continuous high-current power with low ripple for consistent results.

5. Aerospace and Defense:

Provides reliable power for defense and aerospace applications, including testing and powering high-current systems used in critical operations.

Customization Options

*GROWCONTROL*offers a range of customization options to meet the unique power requirements of diverse industrial and defense applications:

- Output Voltage & Current Range Adjustments
- Cooling System Customization (Air or Liquid)
- Advanced Monitoring and Control Interfaces
- Extended Protection Features

Our engineering team collaborates with clients to deliver tailored solutions suited to their operational, environmental, and performance needs.



Why Choose GROW CONTROL?

- **Indigenous Design**: Backed by over three decades of power electronics expertise, *GRO WCONTROL* high frequency AC power supplies meet high standards of reliability and performance.
- Efficiency & Stability: High efficiency and low ripple output ensure stable power delivery, critical for sensitive and precision applications in industrial, defense, and research sectors.
- **Safety and Reliability**: Designed with comprehensive protection mechanisms, these power supplies offer safe and dependable performance under demanding conditions.
- **Ruggedized for Harsh Environments**: Compliant with military standards, *GROW CONTROL* AC power supplies are built to operate reliably in extreme environmental conditions.
- **Customer Support**: From customization and installation to support and maintenance, *GROW CONTROL* ensures seamless integration and optimal performance for all clients.

Certifications

- EN 55022 EMI Compliance
- ISO 9001:2015 Quality Management Systems



Technical Specification

Model no.	GC20KHZACHFPS	GC40KHZACHFPS
Input	415V±10%, 50HZ, 3- phase	420V±10%, 50HZ, 3- phase
Output Voltage (V)	400	100 to 8000
Output frequency (KHz)	20	40
Voltage regulation range (%)	10 to 100	10 to 100
Load voltage regulation (%)	≤1	≤1
Line voltage regulation (%)	≤1	≤1
Efficiency (%)	>90	>85
Duty	Continuous	Continuous
Cooling	Forced air cooling	Forced air cooling



OUR CLIENTS



P-5/1/A, Road No. 13, IDA Nacharam, Hyderabad - 500 076, Telangana, India. Ph : +91- 40 -27175591, Fax : +91-40-27175386 gcptpltd@gmail.com | www.growcontrols.in