



**GROW CONTROL
POWER TECH PVT. LTD.**

We Provide Solutions....

AN ISO 9001:2015 COMPANY



AUTO TRANSFORMER RECTIFIER UNIT

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

GROW CONTROL Auto Transformer Rectifier Unit (ATRU) is an essential electrical device used to convert alternating current (AC) to direct current (DC) for various industrial and commercial applications. It combines a transformer, which steps down the voltage, with a rectifier circuit that converts AC power to DC, ensuring a stable and regulated power supply.

Features

- **AC to DC Conversion:** Efficiently converts high-voltage AC to low-voltage DC.
- **Compact Design:** Optimized for space-saving and easy integration.
- **High Efficiency:** Minimizes power losses during the conversion process.
- **Voltage Regulation:** Ensures consistent DC output regardless of AC input fluctuations.
- **Robust Construction:** Built to withstand harsh industrial environments.

Key Advantages

- 1. Reliable Power Supply:**
Provides a stable DC output for sensitive equipment.
- 2. Energy Savings:**
High efficiency reduces energy consumption and operational costs.
- 3. Versatile Application:**
Can be used across various industries requiring DC power.
- 4. Maintenance-Friendly:**
Easy to service and maintain with long operational lifespans.
- 5. Compact and Space-Saving:**
Ideal for locations with limited space.

Applications

1. Telecommunications:

Powers communication systems and equipment.

2. Railways:

Used for electric traction in rail systems.

3. Power Distribution:

Provides DC for industrial machinery and renewable energy systems.

4. Military and Aerospace:

Ensures reliable power for critical systems and equipment.

5. Data Centers:

Supports backup power systems and uninterrupted operations.

Customization Options

GROW CONTROL provides a variety of customization options for the Transformer Rectifier Unit to accommodate specific application requirements:

- **Custom Input and Output**
- **Enhanced Control Algorithms for Specific Applications**
- **Integrated Monitoring Systems** for real-time feedback
- **Optimized Cooling Solutions** (Air or liquid)
- **Modular Configurations for Scalable Power Ratings**
- **Additional Communication Interfaces** for enhanced integration

Our engineering team works closely with clients to deliver tailored solutions that precisely fit their operational needs, ensuring optimal performance and compatibility.

Why Choose **GROW CONTROL**?

- **Indigenous Expertise:** Tailored to meet Indian industry standards with local support for customization and maintenance.
- **Reliable and Efficient:** Designed for stability and high efficiency, ensuring consistent power delivery for critical applications.
- **Low Maintenance Requirements:** Durable design reduces wear and tear, minimizing downtime and maintenance costs.
- **Energy Efficient and Cost-Effective:** Low energy losses lead to cost savings and enhanced operational efficiency.



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- **Customer Support:** From initial design consultation to installation and ongoing support, **GROW CONTROL** offers a full range of services.

Certifications

- **MIL-STD-810** – Environmental Testing Standards
- **MIL-STD-461** – Electromagnetic Compatibility Standards
- **EN 55022** – EMI Compliance
- **ISO 9001:2015** – Quality Management Systems



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Technical Specification

Model no	GCPT125V300ATRU
Input	
Rated AC Voltage	200V Ph-Ph, 400Hz
Variation of AC Supply Voltage	$\pm 10\% \pm 2\%$
No. of Phases	3(4 wire)
Output Specification	
Rated DC Voltage	270V DC
Rated DC Current	150Amps
Rating Class	Continuous
Ripple	Better than 3% RMS of Rated Output and at nominal AC Input Voltage
Harmonics	Better than 3% current harmonics

