



Ground Power Unit

GPU

Shenzhen Anzhiya technology Co., LTD.


Anzhiya

Ground Power Supply Series



FEATURES

 | Start The Engine

 | Charge

 | Energy Saving Protection

 | Test

APPLICABLE SCENE



Aircraft Maintenance



Diagnostic Work



Green Energy

Anzhiya

INTRODUCTION

GPU-28 series aviation ground power supply (28.5V) is a kind of special power supply equipment that provides high-quality external DC power supply for various types of military aircraft and aviation equipment during production, inspection, repair and maintenance.

The input stage adopts intelligent thyristor module To achieve the soft start of the main circuit, the intermediate stage uses a full-bridge topology and phase-shifting soft switching technology to achieve the conversion of electrical energy, and the output stage uses LC filtering to obtain a high-quality DC voltage.

High-performance DSP as a central processor, pure digital measurement control technology, VFD screen display, novel and beautiful shape, reasonable structure design, high stability and high reliability, is a safe, reliable, efficient and pure high-end aviation ground power supply.

At present, it has been widely used in airports, aircraft manufacturing, testing, maintenance and other occasions. There are fixed and mobile types, which can be fixedly installed on the apron, hangar, trailer, and car for the power supply of the aircraft. It is a substitute for the unit type power supply.

APPLICATION

| | |
|---|--|
| 1 | IPS-APSA-28.5 Series is designed to give continuous high-quality DC power. |
| 2 | This continuous high-power model is ideal for crew training, aircraft servicing in workshops, on the ramp, or in the field, diagnostic work, pre-flight checks, charging the onboard battery, or for continuous equipment powering during operations, without draining the onboard aircraft batteries. |
| 3 | The safety features include Overvoltage, Overload, and Internal Thermal, Short Circuit protection. The power modules conform to EMC standards for noise emissions and immunity |

PERFORMANCE CHARACTERISTICS

| | |
|---|--|
| 1 | Robust metal cabinet housing |
| 2 | Compact size |
| 3 | Fixed or Mobile are available |
| 4 | Low ripple content $\leq 150\text{mV}$ (RMS) |
| 5 | Self-diagnose and alarm |
| 6 | Complete protection |

SPECIFICATIONS

| | | |
|-----------------------------------|--------------------------|---|
| Model Specification | | AZY-ATDA28.5-800 |
| Input | Standard | 3 phases |
| | Voltage / Frequency | 380VAC \pm 20% 50/60HZ |
| Output | Power | 22800W |
| | Rated voltage | 28.5VDC |
| | Voltage regulation range | 5.00V-32.00VDC |
| | Current | 800.0A |
| | Restricted Flow Range | 0-800.0A |
| Source voltage effect/load effect | | $\leq 0.5\%$ FS |
| DC voltage ripple | | $\leq 0.5\%$ FS(Vrms) |
| Indicator | | 7 inch color LCD |
| Output voltage display | | 4-digits LCD, resolution 0.01V |
| | | Maximum allowable error: $\leq \pm 0.5\%$ FS (Note: FS means full scale) |
| Output current display | | 4-digits LCD, resolution 0.1A |
| | | Maximum allowable error: $\leq 0.5\%$ FS (10% above rated value) |
| Insulation resistance | | Input to housing and output: $\geq 20\text{M}$ (DC 1000V) Output to housing: $\geq 20\text{M}$ (DC 1000V) |
| Electrical strength resistance | | Input to housing and output:AC 1500V/min,Leakage current<20mA Output to housing:AC 500V/min,Leakage current<20mA |
| Overall machine efficiency | | $\geq 85\%$ |

| | |
|-------------------------------|---|
| Automatic protection function | Automatic protection in case of output overvoltage, overcurrent, module overheating and short circuit |
| Communication Interface | Communication RS485, modbus rtu protocol |
| Ambient temperature | Temperature: -10°C-45°C, relative humidity 10-95% (25°C non-condensing state) |
| Dimension/Weight | Trailer type (including cable hanger): width 650 height 800 (with universal wheels) depth 600 |
| Remarks | The standard offer does not including any cable for this power supply. |

MODEL LIST

| (DC28V 0-33V)Nominal Voltage: 28.5VDC | | | | | |
|---|-------------------|-------------------------------|--------------|---------------|------------------|
| NO | Model | INPUT (VAC) | OUTPUT (VDC) | OUTPUT (AMPS) | CAPACITY (WATTS) |
| 1 | IPS-ATDA28.5-50 | Single phase 220VAC 50Hz/60Hz | 0~28.5VDC | 0-50A | 1425 |
| 2 | IPS-ATDA28.5-100 | Single phase 220VAC 50Hz/60Hz | 0~28.5VDC | 0-100A | 2850 |
| 3 | IPS-ATDA28.5-200 | Single phase 220VAC 50Hz/60Hz | 0~28.5VDC | 0-200A | 5700 |
| 4 | IPS-ATDA28.5-400 | 3 phases 380VAC 50Hz/60Hz | 0~28.5VDC | 0-400A | 11400 |
| 5 | IPS-ATDA28.5-500 | 3 phases 380VAC 50Hz/60Hz | 0~28.5VDC | 0-500A | 14250 |
| 6 | IPS-ATDA28.5-600 | 3 phases 380VAC 50Hz/60Hz | 0~28.5VDC | 0-600A | 17100 |
| 7 | IPS-ATDA28.5-800 | 3 phases 380VAC 50Hz/60Hz | 0~28.5VDC | 0-800A | 22800 |
| 8 | IPS-ATDA28.5-1000 | 3 phases 380VAC 50Hz/60Hz | 0~28.5VDC | 0-1000A | 28500 |
| 9 | IPS-ATDA28.5-1200 | 3 phases 380VAC 50Hz/60Hz | 0~28.5VDC | 0-1200A | 34200 |
| 10 | IPS-ATDA28.5-1500 | 3 phases 380VAC 50Hz/60Hz | 0~28.5VDC | 0-1500A | 42750 |
| 11 | IPS-ATDA28.5-1800 | 3 phases 380VAC 50Hz/60Hz | 0~28.5VDC | 0-1800A | 51300 |
| 12 | IPS-ATDA28.5-2000 | 3 phases 380VAC 50Hz/60Hz | 0~28.5VDC | 0-2000A | 57000 |
| (DC270V 0-330V) Nominal Voltage: 270VDC | | | | | |
| NO | Model | INPUT (VAC) | OUTPUT VDC | OUTPUT (AMPS) | CAPACITY (WATTS) |
| 13 | IPS-ATDA270-30 | 3 phases 380VAC 50Hz/60Hz | 0~270VDC | 0-30A | 8100 |

| | | | | | |
|----|-----------------|---------------------------|----------|--------|--------|
| 14 | IPS-ATDA270-50 | 3 phases 380VAC 50Hz/60Hz | 0~270VDC | 0-50A | 13500 |
| 15 | IPS-ATDA270-100 | 3 phases 380VAC 50Hz/60Hz | 0~270VDC | 0-100A | 27000 |
| 16 | IPS-ATDA270-150 | 3 phases 380VAC 50Hz/60Hz | 0~270VDC | 0-150A | 40500 |
| 17 | IPS-ATDA270-200 | 3 phases 380VAC 50Hz/60Hz | 0~270VDC | 0-200A | 54000 |
| 18 | IPS-ATDA270-300 | 3 phases 380VAC 50Hz/60Hz | 0~270VDC | 0-300A | 81000 |
| 19 | IPS-ATDA270-500 | 3 phases 380VAC 50Hz/60Hz | 0~270VDC | 0-500A | 135000 |
| 20 | IPS-ATDA270-800 | 3 phases 380VAC 50Hz/60Hz | 0~270VDC | 0-800A | 216000 |

DETAILED IMAGE



FACTORY PHOTOS

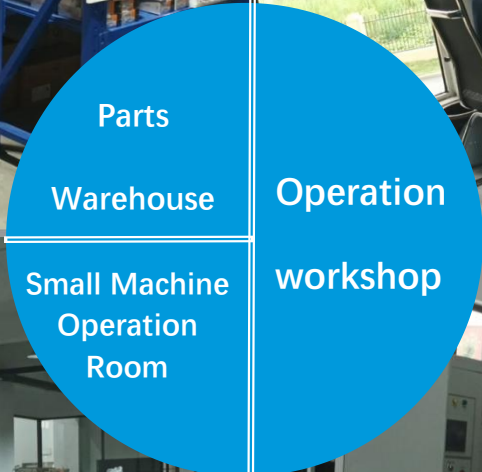




About Us:

We are a high-tech professional company specializing in the research and development, production and sales of variable frequency power supplies, programmable DC power supplies, dock shore power supplies, military power supplies, and power automation test systems. Our products are widely used in household appliances, motor testing, dock shipyards, aerospace, new energy and other applications.

We always adhere to our original intention to meet customer expectations, become the driving force and goal of the company's progress, and support scientific and technological innovation to enhance the core technological competitiveness of the enterprise and revitalize the outstanding national brand.



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