



# 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-ATDA270-100
Input	Standard	3 phases
	Voltage / Frequency	380VAC $\pm$ 20% 50/60HZ
Output	Power	27000W
	Rated voltage	270VDC
	Voltage regulation range	270-330VDC
	Current	100.0A
	Restricted Flow Range	0-100.0A
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





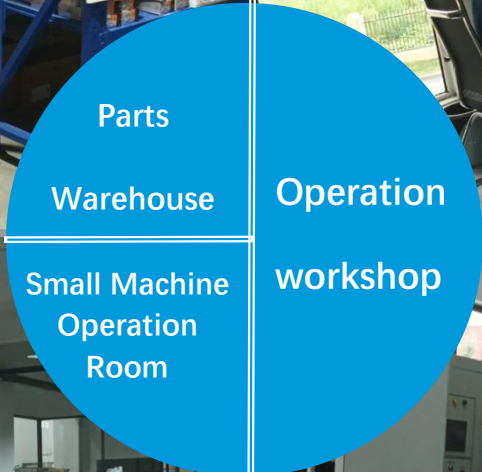


## About Us:

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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