

Main Features:

- ★ Simple and fast site installation and operation;
- ★ Integrated, compact, light;
- ★ High load capacity, suitable for new generation of all-electric aircraft, such as B787, A380 etc.;
- ★ Intelligent design of reel speed, automatic retractable end, fast, high efficiency;
- ★ Optimized structure, high reliability, easy maintenance;
- ★ Input current distortion <8.5%, input power factor > 0.96;
- ★ High quality waveform, the harmonic content of 1.5%;
- ★ Automatic voltagedrop compensation, to ensure accurate aircraft terminal voltage;
- ★ Operating temperature: -40- +60℃, protection class: IP55.



Applicable standards:

- ★ MH/T 6018-2014 Aircraft Ground Static Converter (refer to ISO 6858:1982)
- ★ GJB 572A-2006 Aircraft external power supply characteristics and general requirements (refer to BS 2G 219-1983)
- ★ GJB 181A-2003 Aircraft Electric Power Characteristics (refer to MIL-STD-704F)
- ★ GJB 5189-2003 Test Methods for Determining Parameters of the Characteristics of Aircraft Power Supply
- ★ GJB 151B-2013 Requirements of electromagnetic emission and susceptibility for military equipment and subsystems
- ★ GJB 150.8A-2009 Environmental testing methods for military equipment - Part 8: Raining test
- ★ GJB 150.9A-2009 Environmental testing methods for military equipment - Part 9: Damp heat test
- ★ GB 5226.1-2009 Electrical safety of machinery-Electrical equipment of machines-Part 1: General requirements (equal to IEC60204-1:2005)
- ★ GB 4793.1-2007 Safety requirements for electrical equipment for measurement, control and laboratory use - (equal to IEC 61010-1:2001) Part 1: General
- ★ GJB 1440-92 Definitions and basic requirements of enclosures for electric and electronic equipment

Spec.

Model		AN17PC090-25
Input	Voltage	380V/400V±15%
	Frequency	45～63Hz
	Line Current Distortion	<8.5%
	Power Factor	>96%(100% load)
Output	Power	90KVA
	Voltage	Rated voltage:3×200/115V; Setting Range:100.0～130.0V
	Frequency	400Hz±0.1%
	Voltage Distortion	<1.5%(Linear Load)
	Over Load	125% 600 sec; 150% 60 sec; 200% 30 sec; 300% 10 sec; 400% 1 sec
	Supply Distance	25m
	Total efficiency	>93%
Protect		Input under/over voltage,input phase sequence;Key unit overheat;Output under/over voltage; Output overload,output short circuit;Internal digital power;Motor Lock rotor,overload;Interlock (optional).
Environment	Operating temperature	-40℃～+60℃
	Relative humidity	10%～95%
	Noise level	<65dB(A)(1m)
	Protection grade	IP55
Dimension W×H×D (mm)		1030×900×1580
Weight(Kg)		900

Application

Ainuo airport power supply system has been applied to multiple airports, Shenzhen Baoan airport, Xiamen Gaoqi airport, Fuzhou Changle airport, Jiangsu Yancheng airport, equipment to run a good, strong guarantee and received a high reputations from customers.



Fuzhou Changle airport



Shenzhen Baoan airport



Jiangsu Yancheng airport

Solution 1 Integrated style power supply system



Brief introduction

Ainuo integrated power supply system with cable reel is the optimum solution for airport boarding bridge. Combine medium frequency power supply with cable reel by structure optimization, and built the integrated system perfectly. Quick installation, easy operation, high guarantee service efficiency.

Integrated system advantages

- Quick and simple installation, no need comprehensive operation.
- Integrated structure, compact dimensions and low weight.
- Perfect over load capacity, suitable for the latest generation aircraft model, such as B787 and A380, etc.
- Intelligent design of cable reel rotation speed, automatic twist/release at the end of cable, fast twist/release speed, high efficiency.
- Optimized structure, high reliability, easy maintenance.

Solution 2 Separated power supply system



Brief introduction

Separated power supply system include Ground medium frequency power supply, cable reel, remote control box, inter locking device, etc. Medium frequency power supply output is connected to cable reel input, remote control box is used to stop/start output of medium frequency power supply and twist/release cable.

Integrated system advantages

- Power supply and cable reel maintenance is more easier, compared to power supply system.
- Independent intellectual property rights of power supply and cable reel. Compact dimension, low weight, small pressure to boarding bridge.

Solution 3 Pedestal Mounted power supply system



Brief introduction

Pedestal mounted power supply system, fix integrated power supply with cable reel on pedestal, provide the power supply to aircraft from the grounding. It has the following advantages than bridge mounted power supply system.

Integrated system advantages

- Provide power supply in separated, do not inter locked with boarding bridge, more safety and reliable.
- The power supply system is changed from bridge mounted to pedestal mounted, highly reduce bearing design risk.
- Easy installation and maintenance, low maintenance cost.