

AC Power Supply

Single-phase Output AC Power Supply ATS-1000X Series

Product description:

ATS-1000X series is new design with economic type single-phase AC power supply can simulate the grid voltage of all countries in the world, providing soft-start, withstand 3 times overshock current, small size & light weight. It has regular and programming mode operation. It can realize various 20 programming functions and supply automatically control the output, support IoT control function, multi-machine parallel output function, realize the parallel output of multiple power supplies, convenient and flexible, and save resources.



ATS-1000&1001A/B



ATS-1002&1003A/B



ATS-1005&1006A/B



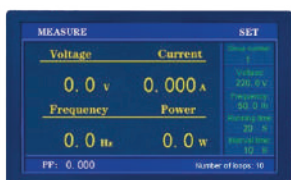
ATS-1010A/B

Features

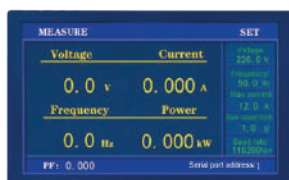
- It is small in size and light in weight, and can meet the installation requirements of standard cabinets.
- Fast startup speed, it can start output in just 3 seconds.
- 5-inch color LCD screen displays measurement and setting parameters clearly at the same time.
- Low output voltage harmonic distortion, THD <1.0% (ATS-1000B series).
- Strong overload capacity, can withstand 3 times overcurrent impact for 2 seconds (ATS-1000B series).
- Equipped with a digital encoder knob, users can quickly and accurately set output parameters.
- It has an output current limiting function and will automatically alarm if the set current limit is exceeded.
- The main power components and integrated circuits are imported.
- It has good electromagnetic compatibility (EMC) and strong anti-interference ability.
- It has high measurement accuracy, strong load adaptability, and is suitable for various loads.
- It has good electromagnetic compatibility (EMC) and strong anti-interference ability
- It has two operating modes: normal mode and programming mode, with multiple functions and a wide range of applications.
- It has a soft-start function, which can realize voltage slow-rise start (0.1~3S), effectively solving the surge impact generated when inductive and capacitive loads start.
- It has 20 built-in programming groups, allowing users to implement various programming functions. The power supply output is automatically controlled, saving time and effort.
- Easy to operate, excellent performance, suitable for various applications such as laboratories and system integration.
- Standard configuration includes an RS232 communication interface (baud rate selectable, up to 115200bps), with optional RS485 and Ethernet communication interfaces for more stable and reliable connection with instruments.
- Intelligent fan control: The fan speed can be automatically adjusted according to the power supply temperature, resulting in low noise.
- Equipped with multiple protection functions such as overvoltage, overcurrent, overload, overheat, and short circuit, ensuring high reliability of the power supply.
- Output waveform start and stop angles can be controlled arbitrarily from 0 to 360 degrees, making it more suitable for testing switching power supplies (optional).
- IoT smart control function, allowing you to easily remotely control the power supply using your mobile phone or computer (optional).
- Multi-unit parallel output function, enabling parallel output of multiple power supplies, which is convenient, flexible and saves resources (optional).
- Accept custom orders based on special specifications and requirements.

Type of Indication

◆ 5-inch Color LCD Display



Programming mode



Normal mode

◆ Rear panel descriptions



Desktop series



Cabinet with caster series

Specifications

Model	ATS-1000A/B	ATS-1001A/B	ATS-1002A/B	ATS-1003A/B	ATS-1005A/B	ATS-1006A/B	ATS-1010A/B
Output Capacity	500VA	1kVA	2kVA	3kVA	5kVA	6kVA	10kVA
Input Parameters							
Isolated Function	Input and output voltage isolation.						
Input Power	220V±15%, 50Hz±5%						
Wire Connection	Single-phase, 2 Wire + PE						
Output Parameter							
Output Mode	Single-phase, 2 Wire + PE, 5-inch color LCD screen						
Output Voltage	Auto	Phase voltage : (Low gear) 0.0 ~ 150.0V (L-N) / (High gear) : 150.1 ~ 300.0V (L-N)					
	High Lock	Phase voltage : 0.0 ~ 300.0V (L-N)					
Output Current	110V	4.6A	9.1A	18.2A	27.4A	45.6A	54.6A
	220V	2.3A	4.6A	9.1A	13.7A	22.7A	27.3A
Output Frequency	45.0Hz ~ 400Hz, Resolution : 0.1Hz, Fixed frequency : 50Hz, 60Hz, 400Hz						
Frequency Stability	≤0.01%						
Voltage Stability	≤1%						
Voltage Distortion	Linear load : THD <1.5% (ATS-1000A series), THD<1.0% (ATS-1000B series)						
Crest Factor	1.41 ±0.01						
Source Voltage Effect	≤0.5%						
Load Effect	≤0.5%						
Efficiency	≥85%						
Measurement Display							
Frequency Display	Resolution: 0.1V, Accuracy: 0.1%×reading value+0.2%×full scale value						
Voltage Display	Resolution: 0.1Hz, Accuracy: 0.02%						
Current Display	Resolution: 0.01A, Accuracy: 0.2%×reading value+0.2%×full scale value						
Power Display	Resolution: 1W, Accuracy: 0.4%× reading+0.4%×full scale						
Power Factor Display	Resolution: 0.001						
Function & Features							
Overload Capacity	100% < output ≤ 110% 15s shutdown output, 110% < output < 300% 2s shutdown output (Only ATS-1000B series)						
Applicable loads	Resistive, inductive, rectified and other loads (non-resistive loads need to be berated).						
Protection Functions	When the input overvoltage (greater than 115% of the rated input voltage), the output is overcurrent, overloaded, short-circuited, or over-heating of power device, the output will be automatically cut off and will be an audible and symbolic alarm prompt.						
Online Adjustment	The output voltage and frequency can be adjusted Online						
Setting Functions	Normal mode settings : voltage, frequency, current limit, ramp-up time, baud rate, serial port address. Programming mode settings : sequence group number, voltage, frequency, running time, interval time, number of loops.						
Memory Function	The power-off memory function automatically remembers the present parameters after the preset is completed and the original preset value can still be maintained after turning off the computer and then turning it on.						
Programming Functions	20 built-in groups, allowing users to implement various programming functions, automatic control the output and save time and effort						
Soft-start	It can realize the voltage ramp-up start (0.1~3S), effectively solving the surge impact generated when inductive & capacitive loads start.						
Current Limiting Function	It has an output current limiting function, when the output current is greater than the upper limit of current, it will automatically cut off the output and have an audible and symbolic alarm prompt.						
Communication Interface	It is equipped with RS232 communication interface (baud rate selectable, up to 115200bps), RS485 and Ethernet communication interface (optional), making it more stable and reliable for used with instrument.						
Work Environment	Temperature : 0 ~ 40 °C, Relative humidity : 20% ~ 90%						
Dimension (WxDxH) mm.	480×415×133.5			480×580×222		480×600×267	480×600×445
Weight	18kg	23kg	34.5kg	41.5kg	54kg	59kg	87.5kg

Ordering Information

- ATS-1000A/B** : 500VA AC Power Supply
 - ATS-1001A/B** : 1kVA AC Power Supply
 - ATS-1002A/B** : 2kVA AC Power Supply
 - ATS-1003A/B** : 3kVA AC Power Supply
 - ATS-1005A/B** : 5kVA AC Power Supply
 - ATS-1006A/B** : 6kVA AC Power Supply
 - ATS-1010A/B** : 10kVA AC Power Supply
 - ATS-1020A/B** : 20kVA AC Power Supply (Three-phase input)
 - ATS-1030A/B** : 30kVA AC Power Supply (Three-phase input)
- Remark:** **A** series : without 3 times overcurrent shock & THD <1.5%
B series : with 3 times overcurrent shock & THD < 1.0%

Standard Accessories :

- User Manual
- Operation Software

Optional Accessories :

- RS-485 interface port
- Ethernet interface port
- Internet of Things intelligent control function
- Multi-machine parallel output function
- The output waveform starting angle and stop angle are 0 ~ 360 degrees arbitrary control function