

APS15-3A/APS22-5A

COMMUNICATION MAINTENANCE DC REGULATED VOLTAGE POWER SUPPLY



Overview

APS series communication maintenance power supply is designed for the needs of communication maintenance technicians, training schools and related engineering research and development personnel. The product adopts series type regulated voltage scheme with the current best stability and is controlled by digital MCU chip. It features very high stability and low ripple, simple operation and control, and all kinds of protection functions, especially suitable for use in the communication industry.

Application

- College training education
- Universal testing in R&D laboratory
- Maintenance of communications equipment

Technology specification and function features:

Model	APS15-3A	APS22-5A
Input Voltage	230VAC/115VAC(Optional)	
Rated output voltage	0-5V/0-15V (dual steps)	0-22V (continuously adjustable)
Rated output current	0.5A/3A (dual steps)	0-0.5A/0-5A (continuously adjustable)
Rated output power	56W (including USB interface output)	125W (including USB interface output)
Ripple and noise	$CV \leq 0.5mV_{rms}$	$CV \leq 0.5mV_{rms}(5Hz \sim 1MHz)$
Line Regulation	$CV \leq 0.01\% + 3mV$	$CV \leq 0.01\% + 3mV$ $CC \leq 0.1\% + 3mA$
Load Regulation	$CV \leq 0.01\% + 8mV$	$CV \leq 0.01\% + 4mV(I < 3A)$
set resolution	Voltage: 3mV	Voltage: 3mV Current: 1mA
Protection Function	OCP(support automatically recovery)/OHP	OCP(support automatically recovery)/constant overcurrent/OHP
Other Functions	coarse tuning/ fine tuning switch, 5V/ 15 switch, 0.5A/ 3A switch and parameters locking	coarse tuning/ fine tuning switch, 0.5A/ 5A switch and parameters locking
USB interface	Fixed 5V output($\pm 5\%$), maximum 2.1A output (overcurrent protection, stop outputting)	support QC quick charge agreement maximum 3A output
Read Back Accuracy	LCD display: $\pm(0.5 \pm 2 \text{ digits})$ Current pointer display: Class-2.5	
Heat-dissipating method	Smart fan control	
Working condition	Temp: 0~40℃ Humidity: <80%	
Storage condition	Temp: -20~70℃ Humidity: <80%	
Size(WxHxD)	88*150*215(mm)	
N.W	2.5Kg	3.6Kg

Features

- MCU-Digital control, series adjustment mode control, low ripple, low noise, and high stability.
- The double-type head design is more suitable for the use of communication equipment products.
- Fast dynamic load response speed, optimized processing for communication equipment.
- The product is designed with cut-off self-recovery protection function and over-temperature protection function.
- Independent USB interface, providing 3A current output capability, with over-current and short-circuit protection support QC quick charge agreement.
- Voltage and current are switched with two gears to adapt to different equipment.
- Built-in voltage gear automatic adjustment function, which can be more suitable for full load use.
- The digital encoder adjusts the voltage, and can switch between coarse adjustment and fine adjustment function, more precise control and longer service life.
- With output adjustment lock function, alarm prompt function, which can effectively prevent wrong operation.
- Intelligent fan control is automatically controlled according to the internal power device temperature.