

PSD Series

High Performance Regulated DC Power Supply (Digital Display)

PSD Series is a high performance and precision DC regulated power supply with a digital LED display. Our PSD series has constant voltage mode, constant current mode, current output protection function and its convenient feature that a fixed 5V/1A output for most electronic applications.

It provides 8 hours continuous full load stable performance, high efficient heat sink design for heat dissipation even without fan ventilated, fully flexible voltage and current readings adjustable.

All these excellent performances with extract stability and enhanced linearity are making the unit very outstanding. These power supplies are suitable for laboratory, university, high school, and work place uses or where a high performance and precision regulated DC power supply is required.



FEATURES

- 0-30V Voltage Linearly Adjustment
- Low Noise And Ripple Less Than 0.3mV p-p
- Voltage, Current Pre-set Feature
- CV/CC Mode Automatic Change
- Auto Current Cut Off Protection (F and E models only)
- Fixed 5V/1A Output (F model only)
- Full Loading Continuous Operation Over 8 Hours
- Rugged Metal Cabinet
- 110V/220V AC power input switchable

PSD Series GERNERAL SPECIFICATION

Model Number	Maximum Current Output			Current Output Protection	Fixed Output DC5V/1A	Digital LED Display	
	2A	3A	5A			4 Digits	3 Digits
PSD30/5F			●	●	●	●	
PSD30/5E			●	●		●*	
PSD30/5D			●				●
PSD30/3F		●		●	●	●	
PSD30/3E		●		●		●*	
PSD30/3D		●					●
PSD30/2F	●			●	●	●	
PSD30/2E	●			●		●	
PSD30/2D	●						●

Remarks: *For model "E", the voltage display is 4 digits and current display is 3 digits.

OPERATION CONDITION

Environmental Condition: Operating altitude <2000m, pollution degree II

Input Voltage: 110V/220V AC ± 10% 50Hz

Fuse Protection: F1A/250V (2A output model)
(Fast Blow Type) F1.6A/250V (3A output model)
F2A/250V (5A OUTPUT MODEL)

Power Consumption: 120W (2A output model)
180W (3A output model)
300W (5A output model)

Operating Condition: Temperature: 0~40°C
Relative Humidity*: ≦ 80%RH

Storage Condition: Temperature: -10°C ~ 70°C
Relative Humidity*: ≦ 80%RH

*Non-condensing

Technical Specification

Model	PSD30/5F	PSD30/3F	PSD30/2F
	PSD30/5E	PSD30/3E	PSD30/2E
	PSD30/5D	PSD30/3D	PSD30/2D
Constant Voltage Mode (CV)			
Line Effect	$1 \times 10^{-4} + 2\text{mV}$	$5 \times 10^{-5} + 2\text{mV}$	
Loading Effect:	$1 \times 10^{-4} + 2\text{mV}$	$5 \times 10^{-5} + 2\text{mV}$	
Noise and Ripple:	0.5mV (rms)	0.3mV (rms)	
Temperature Coefficient**	150ppm/°C		
Constant Current Mode (CC)			
Current Range	20mA to 5A	20mA to 3A	20mA to 2A
Line Effect:	$2 \times 10^{-4} + 2\text{mA}$		
Loading Effect:	5mA		
Temperature Coefficient:	500ppm/°C		
Fixed 5V/1A Output Characteristic			
Display Accuracy			
Digital Display:	4 Digits Display $\pm 0.1\% + 1\text{d}$ OR 3 Digits Display $\leq \pm 0.4\% + 1\text{d}$		
Analog Display:	3% of full range		
Resume Time			
Resume Time:	Less than 100 μS		
Mechanical Specification			
Weight(kg):	7.2	5.6	4.0
Dimension(mm):	330x130x165	310x130x165	295x130x165
Accuracy:	$\pm 1\%$		
Noise and Ripple (CV):	0.3mV (rms)		

Accessories

- Power cord
- Instruction manual
- Main connection cable
- Ground plate
- DC5V/1A connection cable (for F model only)
- Spare Fuse

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