

DP Series Programmable DC Power Supply



[ODP3031]



[ODP3032]



- + ODP3032 : two independent controllable channels; ODP3031 : one controllable channel
- + Max output resolution : 1mV / 1mA
- + Low ripples / low noise : <300 μ Vrms / 2 mVpp
- + Up to 100 group timers
- + Up to 10 group preset system configurations
- + Over-voltage / Over-current protection
- + Auto-cooling system
- + 3.9 inch high resolution (480 × 320 pixels) TFT LCD display
- + Multiple communication interface : USB, and RS232

+ Display

Model	ODP3031	ODP3032
Display Type	3.9 inch colored LCD	
Display Resolution	480 × 320 pixels	
Display Color	65536 colors, TFT screen	

+ Mechanical Specifications

Model	ODP3031	ODP3032
Dimension (W×H×D)	298 × 202 × 450 (mm)	
Weight (without package)	7.00 kg	9.80 kg

+ Performance Specifications

The specifications based upon the instrument having run for at least 30 minutes continuously, under the specified operating environment.

Model		ODP3031		ODP3032	
Channel		One controllable channel	Fixed 3.3V / 5V	Two controllable channels	Fixed 5V
DC Output Rating	Voltage	0 - 30V	3.3V / 5V	0- 30V (Independent / Parallel) 0 - 60V (Series) -30V - 30V (Plus-minus)	5V
	Current	0 - 3A	3A	0 - 3A (Independent / Series / Plus-minus), 0 - 6A (Parallel)	3A
Line Regulation	CV	$\leq 0.01\% + 3mV$	$\leq 3mV$	$\leq 0.01\% + 3mV$	$\leq 3mV$
	CC	$\leq 0.1\% + 3mA$	/	$\leq 0.1\% + 3mA$	/
Load Regulation	CV	$\leq 0.01\% + 3mV$	$\leq 0.1\% + 3mV$	$\leq 0.01\% + 3mV$	$\leq 0.1\% + 3mV$
	CC	$\leq 0.2\% + 3mA$	/	$\leq 0.2\% + 3mA$	/
Noise and Ripple (20Hz - 7MHz)	CV	$\leq 300 \mu Vrms / 2 mVpp$		$\leq 300 \mu Vrms / 2 mVpp$	
	CC	$\leq 3mArms$	/	$\leq 3mArms$	/
Settings Resolution	Voltage	1mV	/	1mV	/
	Current	1mA	/	1mA	/
Settings Accuracy (25°C ± 5°C)	Voltage	$\leq 0.05\% + 3mV$	/	$\leq 0.05\% + 3mV$	/
	Current	$\leq 0.1\% + 3mA$	/	$\leq 0.1\% + 3mA$	/
Read Back Resolution	Voltage	1mV (<10V), 10mV ($\geq 10V$)	/	1mV (<10V), 10mV ($\geq 10V$)	/
	Current	1mA	/	1mA	/
Read Back Accuracy (25°C ± 5°C)	Voltage	$\leq 0.05\% + 3 \text{ digits}$	/	$\leq 0.05\% + 3 \text{ digits}$	/
	Current	$\leq 0.1\% + 3 \text{ digits}$	/	$\leq 0.1\% + 3 \text{ digits}$	/

Specifications subject to change without prior notice.

+ Application

general detection in R&D laboratory QC test industrial production automation test
 automobile and electronic circuit test power-supplying education / teaching experimentation
 electronic components test, aging test to monitor the real-time status of power system via remote control
 to monitor battery charging curve

+ Accessories

The accessories subject to final delivery.

