

**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  $\mu$ 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 x 320 pixels) LCD
- + USB2.0, and RS232 serial port digital communication supported
- + SCPI, and LabVIEW supported

**+ Display**

Model	ODP3031	ODP3032
Display Type	3.9 inch colored LCD	
Display Resolution	480 x 320 pixels	
Display Color	65536 colors	

**+ Mechanical Specifications**

Model	ODP3031	ODP3032
Dimension (W x H x D)	250 x 158 x 358 (mm)	
Device Weight	7.00 kg	10.50 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	1	Fixed 3.3V / 5V	2 (independent)	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	$\leq 0.01\% + 3\text{mV}$	$\leq 3\text{mV}$	$\leq 0.01\% + 3\text{mV}$	$\leq 3\text{mV}$
	CC	$\leq 0.1\% + 3\text{mA}$	/	$\leq 0.1\% + 3\text{mA}$	/
Load Regulation	CV	$\leq 0.01\% + 3\text{mV}$	$\leq 0.1\% + 3\text{mV}$	$\leq 0.01\% + 3\text{mV}$	$\leq 0.1\% + 3\text{mV}$
	CC	$\leq 0.2\% + 3\text{mA}$	/	$\leq 0.2\% + 3\text{mA}$	/
Noise and Ripple (20Hz - 7MHz)	CV	$\leq 300 \mu\text{Vrms} / 2 \text{mVpp}$		$\leq 300 \mu\text{Vrms} / 2 \text{mVpp}$	
	CC	$\leq 3\text{mA}_{\text{rms}}$	/	$\leq 3\text{mA}_{\text{rms}}$	/
Settings Resolution	Voltage	1mV	/	1mV	/
	Current	1mA	/	1mA	/
Settings Accuracy (25°C $\pm$ 5°C)	Voltage	$\leq 0.05\% + 3\text{mV}$	/	$\leq 0.05\% + 3\text{mV}$	/
	Current	$\leq 0.1\% + 3\text{mA}$	/	$\leq 0.1\% + 3\text{mA}$	/
Read Back Resolution	Voltage	1mV (<10V), 10mV ( $\geq 10\text{V}$ )	/	1mV (<10V), 10mV ( $\geq 10\text{V}$ )	/
	Current	1mA	/	1mA	/
Read Back Accuracy (25°C $\pm$ 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.

