

Programmable DC Power Supply

Features and Benefits

- Dual independent outputs with Separate controls and one fix output, total power up to 195W
- Two controllable channels with switch for operation conveniency
- Highest output resolution: 1mV/1mA
- Insulation between three output channels effectively reduce the interference
- Outstanding line regulation rate: $\leq 0.01\% + 2\text{mV}(\text{voltage})$, $\leq 0.01\% + 1\text{mA}(\text{current})$
- low ripples noise: $< 300 \mu\text{Vrms}/2\text{mVpp}$
- Four operating mode : independent , parallel connection , series connection ,plus-minus;
- Over-voltage over-current protection: the parameters of over-voltage and over-current are configurable to enhance the load protection
- Up to 100 groups timers and predefine or unlimited output loop to generate arbitrary waveforms
- Up to 30 groups preset system configurations
- Intelligent heat sink with temperature control system
- 3.9 inch high resolution(480X320 pixels) TFT LCD display
- Multiple Interface : USB 2.0 RS232



Model	Max power output	Voltage range	Current range	channel
ODP3032	195W	-30V~30V, fix 5V	0~3A, fix 3A	3

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ODP3032

Programmable DC Power Supply

OWON ODP Series products are new high-performance programmable linear DC power supplies. The excellent features of this series include up to 100 output groups with configurable timer, high-resolution LCD display, extremely clean ripple and noise, comprehensive over-voltage over-current over-temperature protection, user friendly interface and panel layout, and variety standard interfaces to meet diverse test requirements.

■ Performance characteristics

The specifications below are based on the instrument having run for at least 30 minutes continuously under the specified operating temperature.

channel		Channel 1/Channel 2		Fixed 5V
DC Output Ratings	Voltage	Independent/Parallel	0~30V	5V
		Series	0~60V	
		Plus-minus	-30V~30V	
	Current	Independent/Series /Plus-minus	0~3A	3A
Parallel		0~6A		
Line Regulation	CV	$\leq 0.01\% + 3\text{mV}$	$\leq 3\text{mV}$	
	CC	$\leq 0.1\% + 3\text{mA}$		
Load Regulation	CV	$\leq 0.01\% + 3\text{mV}$	$\leq 0.1\% + 3\text{mV}$	
	CC	$\leq 0.2\% + 3\text{mA}$		
Noise and Ripple (20Hz~7MHz)	CV	$\leq 300 \mu\text{Vrms} / 2 \text{mVpp}$	$\leq 300 \mu\text{Vrms} / 2 \text{mVpp}$	
	CC	$\leq 3\text{mA}_{\text{rms}}$		
Settings Resolution	Voltage	1mV	None	
	Current	1mA	None	
Settings Accuracy (25°C±5°C)	Voltage	$\leq 0.05\% + 1\text{mV}$	None	
	Current	$\leq 0.1\% + 1\text{mA}$	None	
Read Back Resolution	Voltage	1mV (<10V)10mV (≥10V)	None	
	Current	1mA	None	
Read Back Accuracy (25°C±5°C)	Voltage	$\leq 0.05\% + 1\text{mV} (<10\text{V}) \leq 0.05\% + 10\text{mV} (\geq 10\text{V})$	None	
	Current	$\leq 0.1\% + 1\text{mA}$	None	

■ Mechanical Specifications

Features	Instruction
Dimension	298mm(L)× 202mm(H)×450mm(D)
Weight	About 9.8 kg

■ Display

Features	Instruction
Display Type	3.9 inch colored LCD (Liquid Crystal Display)
Display Resolution	480 (Horizontal) × 320 (Vertical) Pixels
Display Colors	65536 colors, TFT screen