

Performance Specifications

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

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

Mechanical Specifications

Model	ODP3032	ODP3031
Display Screen	3.9 inch colored LCD, TFT screen	
Display Resolution	480 × 320 pixels	
Display Color	65536 colors	
Dimension	W/H/D 298mm × 202mm × 450mm	
Weight	9.80 kg	7 kg

Specifications subject to change without prior notice.

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owon®
+ Meet your best need

DP Series Programmable DC Power Supply

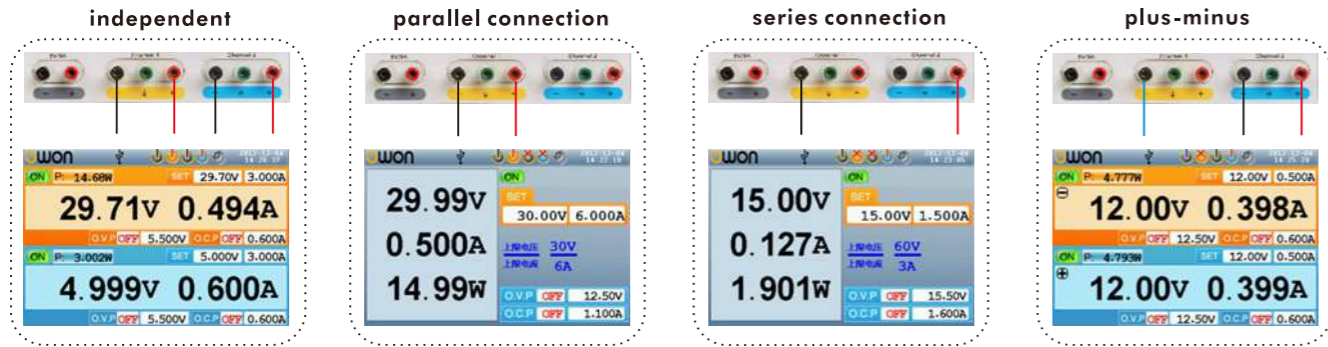


Main Feature

- + Dual independent output with separate control, one fix output supplies up to 195W
- + Highest output resolution : 1mV / 1mA
- + Two controllable channels, with switch for convenient operation
- + Low ripples / low noise : <300μVrms / 2mVpp
- + 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 interface : USB 2.0 / RS232

A Independent Dual Channel

OWON ODP series power supply supports independent dual channel output. Users get access to switch among 4 modes : independent, parallel connection, series connection, and plus-minus, no need extra external hopping, so one unit power supply functions as two.



B Timing Output

Support 100 group timing output settings, users could adjust the power output curve in the PC or on the Power Supply unit. Applied to artificial simulated power output variation.

No.	Volt	Curr	Time	No.	Volt	Curr	Time
0	15.000	3.000	25	0	5.000	3.000	25
1	0.000	0.000	0	1	0.000	0.000	0
2	0.000	0.000	0	2	0.000	0.000	0
3	0.000	0.000	0	3	0.000	0.000	0
4	0.000	0.000	0	4	0.000	0.000	0
5	0.000	0.000	0	5	0.000	0.000	0
6	0.000	0.000	0	6	0.000	0.000	0
7	0.000	0.000	0	7	0.000	0.000	0

100 group timing output settings



artificial simulated power output variation

C 10 groups Storage Data



D Over Voltage / Over Current Protection



current setting

voltage setting

The digital power supply of similar performance accepts 4 group storage data or so, while OWON ODP series is able to accommodate 10 group, which facilitates users choosing preset settings from storage data, saving hand labor.

OWON ODP series power supply equipped with Over Voltage / Over Current Protection (OVP / ODP) function, when operating, users could choose/fix OVP point value, and/or ODP point value via the button key on the front panel. Once power reaches OVP point value (or ODP point value), the power supply system will close the output, and the screen displays fixed OVP (or ODP) point value flickering, accompanying by continual "beep" alarm sound, the alarm sound will not disappear until output (button) shut off by hand triggering.

E CV / CC Auto-switch

Along with load varies, the power output auto-switches between CV / CC. Give an operation example, in the circumstance you set a voltage of 10V at a current of 1A, when actual current not larger than 1A, the power supply unit works under CV status, the power output alters with load accordingly; whereas when actual current larger than 1A, the power supply unit will limit the current automatically, and switch into CC mode, then the power output alters with load accordingly. CV / CC auto-switch fulfills within power supply unit, no human intervention needed.

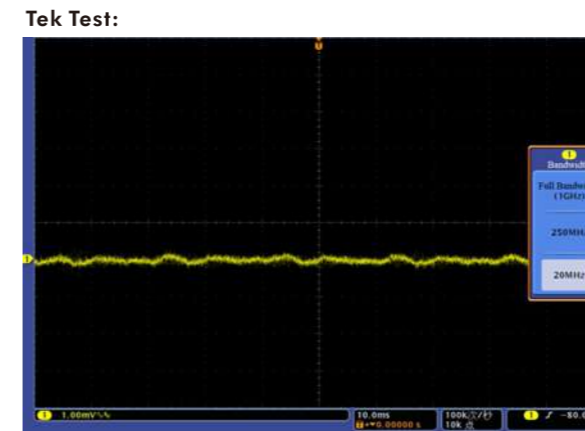
F User-friendly Button Layout

The indicator lamp describes real-time power status, which is totally different from LED color reading CV / CC mode, making users know everything at a simple glance. Standard USB / RS232 port simplifies, and speeds up remote communication.

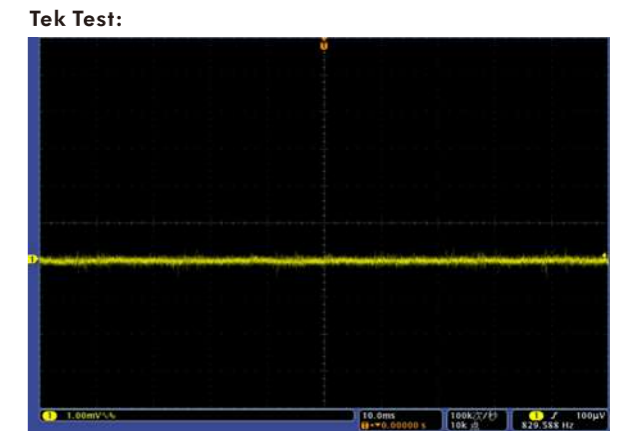


G Low Ripples / Low Noise

OWON ODP3032 features super- low ripples, and super- low noise, only 300uVrms / 2mVpp, which causes almost no influences to circuit test.



30V, 3A load connected



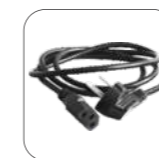
load disconnected

H Application

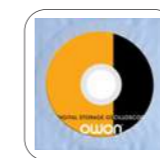
- general detection in R&D laboratory
- QC test
- circuit module / assembly power-supplying
- automobile & electronic circuit test power-supplying
- industrial production automation test
- education / teaching experimentation
- electronic components test, aging test
- to monitor the real-time status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

I Accessories

The accessories subject to final delivery.



Power Cord



CD-Rom



Manual



USB



Fuse