



## Programmable DC Power Supply Triple Channel

### OPPS3000 Series

- 3 channels; two sets of 0-30 V adjustable voltage values and a set of fixed voltage values 2.5 V, 3.3 V and 5 V (optional).
- Four groups of LED displays: minimum resolution 1 mV/1 mA or 10 mV/10 mA.
- Digital control panel (rotary encoder switch); coarse and fine volume control.
- Selectable modes: independent, series and parallel modes.
- In tracking mode, output of CH1 and CH2 will automatically track each other in series or parallel modes. Doubled output voltage in series mode and doubled output current in parallel mode.
- USB standard interface, PC software.

Model		OPPS3031			OPPS3032			OPPS3051		
Output	Channel	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
	Voltage	0 ~ 30 V	0 ~ 30 V	2.5/3.3/5.0 V	0 ~ 30	0 ~ 30 V	2.5/3.3/5.0 V	0 ~ 30 V	0 ~ 30 V	2.5/3.3/5.0
	Current	0 ~ 3 A	0 ~ 3 A	3 A (fixed)	0 ~ 3 A	0 ~ 3 A	3 A (fixed)	0 ~ 5 A	0 ~ 5 A	5 A (fixed)
Fix voltage mode	Fluctuation Ratio	Voltage fluctuation ratio $\leq 0.01\% + 3 \text{ mV}$ Load variation rate $\leq 0.01\% + 3 \text{ mV}$ (rated current $\leq 3 \text{ A}$ ) $\leq 0.02\% + 5 \text{ mV}$ (rated current $> 3 \text{ A}$ )								
	Ripple & Noise	$\leq 1 \text{ mVrms}$ ( $I \leq 3 \text{ A}$ ) (5 Hz ~ 1 MHz) $\leq 2 \text{ mVrms}$ ( $I > 3 \text{ A}$ ) (5 Hz ~ 1 MHz)								
	Recovery Time	$\leq 100 \mu\text{s}$ (Load change in 50%, the minimum load 0.5 A)								
	Temperature Coefficient	$\leq 300 \text{ ppm}/^\circ\text{C}$								
	Output Range	0 ~ setting voltage, Continuously adjustable								
Fix current mode	Fluctuation Ratio	Voltage fluctuation ratio $\leq 0.2\% + 3 \text{ mA}$ Load variation rate $\leq 0.2\% + 3 \text{ mA}$								
	Ripple Current	$\leq 3 \text{ mA}$								
	Output Range	0 ~ setting current, Continuously adjustable								
Trace mode	Parallel Collection	Power Supply fluctuation ratio $\leq 0.01\% + 3 \text{ mV}$ Load variation rate $\leq 0.01\% + 3 \text{ mV}$ (rated current $\leq 3 \text{ A}$ ) $\leq 0.02\% + 5 \text{ mV}$ (rated current $> 3 \text{ A}$ )								
	Series Connection	tracking error $\leq 0.5\% \pm 10 \text{ mV}$ (10 ~ 30 V no load, connection load $\leq 300 \text{ mV}$ ) $\leq 0.5\% \pm 30 \text{ mV}$ (0 ~ 9.99 V empty load, connection load $\leq 300 \text{ mV}$ )								
	Tracking Error	$\leq 0.5\% \pm 10 \text{ mV}$							$\leq 0.5\% \pm 50 \text{ mV}$	
Panel Meter	Display	voltage : 32.000 V full scale, 5 LED current : 3.200 A full scale, 4 LED			voltage : 32.000 V full scale, 3 LED current : 3.200 A full scale, 3 LED					
	Resolution Ratio	voltage : 1 mV current : 1 mA			voltage : 10 mV current : 10 mA			voltage : 10 mV current : 10 mA		
	Programming Precision (25 $\pm$ 5 $^\circ$ C)	voltage : $\pm (0.03\% \text{ reading} + 10) \text{ mV}$ current : $\pm (0.3\% \text{ reading} + 10 \text{ mA})$			voltage : $\pm (0.2\% \text{ reading} + 3 \text{ digits}) (0 \sim 9.99 \text{ V}) \pm (0.5\% \text{ readings} + 2 \text{ digits}) (10 \sim 30 \text{ V})$ current : $\pm (0.5\% \text{ reading} + 2 \text{ digits}) (0 \sim 3 \text{ A}) \pm (0.5\% \text{ readings} + 5 \text{ A}) (> 3 \text{ A})$					
	Reading Precision (25 $\pm$ 5 $^\circ$ C)	voltage : $\pm (0.03\% \text{ reading} + 10 \text{ digits})$ current : $\pm (0.3\% \text{ reading} + 10 \text{ digits})$			voltage : $\pm (0.2\% \text{ reading} + 3 \text{ digits}) (0 \sim 9.99 \text{ V}) \pm (0.5\% \text{ readings} + 2 \text{ digit s}) (10 \sim 30 \text{ V})$ current : $\pm (0.5\% \text{ reading} + 2 \text{ digits}) (0 \sim 3 \text{ A}) \pm (0.5\% \text{ readings} + 5 \text{ A}) (> 3 \text{ A})$					
CH3	Output Voltage	(2.5 V/3.3 V/5 V) $\pm 8\%$								
	Output Current	3 A						5 A		
	Fluctuation Ratio (25 $\pm$ 5 $^\circ$ C)	Linearity rating $\leq 25 \text{ mV}$ Loading rating $\leq 25 \text{ mV}$								
	Ripple & Noise	$\leq 2 \text{ mVrms}$								
Key lock	Yes									
Save/Recall	5 groups									
Power voltage	AC 100 V/120 V/220 V/230 V $\pm 10\%$ , 50/60 Hz									
Size & weight	250 (W) $\times$ 150 (H) $\times$ 310 (D) mm ; about 7 kg									

### Options

OPPS3000-A1	Ch3: Fixed Voltage Value 2.5 V, 3.3 V And 5 V
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