

Model	DP832A	DP832	DP831A	DP811A	DP821A
Channels	3			1	2
DC Output (0°C to 40°C)					
Voltage/current	CH1: 0 to 30V/0 to 3A CH2: 0 to 30V/0 to 3A CH3: 0 to 5V/0 to 3A		CH1: 0 to 8V/0 to 5A CH2: 0 to +30V/0 to 2A CH3: 0 to -30V/0 to 2A	0 to 20 V/ 0 to 10 A (Low Range) or 0 to 40 V/0 to 5 A (High Range)	CH1: 0 to 8 V 0 to 10 A CH2: 0 to 60 V 0 to 1 A
OVP/OCP	CH1: 1mV to 33V/1mA to 3.3A CH2: 1mV to 33V/1mA to 3.3A CH3: 1mV to 5.5V/1mA to 3.3A	CH1: 10mV~33V/1mA~3.3A CH2: 10mV~33V/1mA~3.3A CH3: 10mV~5.5V/1mA~3.3A	CH1:1mV ~ 8.8V/0.1mA ~ 5.5A CH2:1mV ~ 33V/0.1mA ~ 2.2A CH3:-1mV ~ -33V/0.1mA ~ 2.2A	0.1 V to 22 V or 0.1 V to 44 V	CH1: 0.1 to 8.8 V 0.1A to 10.5A CH2: 0.1 to 66 V 0.1A to 1.1A
Load Regulation Rate ±(Output Percentage + Offset)					
Voltage	<0.01%+2mV				
Current	<0.01%+250uA				
Linear Regulation Rate ±(Output Percentage + Offset)					
Voltage	<0.01%+2mV				
Current	<0.01%+250uA				
Ripples and Noise (20Hz to 20MHz)					

Normal Mode Voltage		<350 μ Vrms/2mVpp				
Normal Mode Current		<2mA _{rms}				
Common Mode Current		<1.5 μ A _{rms}			Not specified	
Annual Accuracy [1] (25°C \pm 5°C) \pm (Output Percentage + Offset)						
Programming	Voltage	0.05% + 10mV		0.15%+ 5mA	0.05% + 10mV	CH1: 0.05% + 10mV CH2: 0.1% + 25mV
	Current	0.2% + 10mA		0.2%+10mA	0.1% + 10mA	0.2% + 10mA
Readback	Voltage	0.05% + 5mV		0.1%+20mV	0.05% + 10mV	CH1: 0.05% + 5mV CH2: 0.1% + 25mV
	Current	0.15%+ 5mA		0.2%+10mA	0.1% + 10mA	0.15% + 10mA
Resolution						
Programming	Voltage	1mV	10mV With high-resolution option: 1mV	1mV	1mV	CH1: 1 mV CH2: 10 mV
	Current	1mA	1mA	CH1: 0.3mA CH2/CH3: 0.1mA	0.5mA	CH1: 1 mA CH2: 0.1 mA
Readback	Voltage	0.1mV	10mV With high-resolution option: 0.1mV	0.1mV	0.1mV	CH1: 1 mV CH2: 1 mV
	Current	0.1mA	1mA With high-resolution option:	0.1mA	0.1mA	CH1: 1 mA CH2: 0.1 mA

			0.1mA			
Display	Voltage	1mV	10mV With high-resolution option: 1mV	1mV	1mV	CH1: 1 mV CH2: 10 mV
	Current	1mA	10mA With high-resolution option: 1mA	1mA	1mA	CH1: 1 mA CH2: 0.1 mA
Transient Response Time						
Less than 50µs for output to recover to within 15mV following a change in output current from full load to half load or vice versa.						
Command Processing Time [2]						
<100ms						
Temperature Coefficient per? (Output Percentage + Offset)						
Voltage		CH1/CH2: 0.01%+5mV CH3: 0.01%+2mV		0.01%+2mV	0.01%+3mV	
Current		0.01%+2mA		0.02%+3mA	0.02%+3mA	
Stability [3] ±(Output Percentage + Offset)						
Voltage		CH1/CH2: 0.02%+2mV CH3: 0.01%+1mV		CH1: 0.03%+1mV CH2/CH3: 0.02% + 2mV	0.02%+1mV	
Current		0.05%+2mA		CH1: 0.1%+3mA CH2/CH3: 0.05% + 1mA	0.1%+1mA	