

## Specifications DP1308A

DP1308A Programmable Linear DC Power Supply specification and operating characteristics are based on the instrument having been operated continuously for 30 minutes under the specified operating temperature.

### NOTE:

All the specifications below apply to all the three channels output unless where noted.

Model	DP1308A		
Channels	+6V	+25V	-25V
<b>DC output (@ 0°C~40°C)</b>			
Voltage	0~+6V	0~+25V	0~-25V
Current	0~5A	0~1A	0~1A
Overvoltage Protection	0.1V~6.5V	0.1V~27V	-0.1V~-27V
Overcurrent Protection	0.1A~5.5A	0.1A~1.2A	0.1A~1.2A
<b>Load Regulation± (output percentage + offset)</b>			
Voltage	<0.01%+2mV		
Current	<0.01%+250μA		
<b>Linear Regulation± (output percentage + offset)</b>			
Voltage	<0.01%+2mV		
Current	<0.01%+250μA		
<b>Ripple and Noise (20 Hz~20 MHz)</b>			
Normal Mode Voltage	<350μVrms/2mVpp		
Normal Mode Current	<2mArms	<500μArms	
Common Mode Current	<1.5μArms		
<b>Accuracy 12 Months<sup>[1]</sup> (25°C±5°C)±(output percentage + offset)</b>			
Program ming	Voltage	0.1%+5mV	0.05%+20mV
	Current	0.2%+10mA	0.15%+4mA
Read Back	Voltage	0.1%+5mV	0.05%+10mV
	Current	0.2%+10mA	0.15%+4mA
<b>Resolution</b>			
Programming	0.5mV/0.5mA		1.5mV/0.1mA
Read Back	0.5mV/0.5mA		1.5mV/0.1mA
Meter	1mV/1mA		10mV/1mA
<b>Transient Response Time</b>			

Less than 50 $\mu$ s is spent on recovering the voltage within 15mV during the output current changes from full load to half load or half to full.

### Command Processing Time<sup>[2]</sup>

<50ms

### Temperature Coefficient per °C (output percentage + offset)

Voltage	0.01%+2mV	0.01%+3mV
Current	0.02%+3mA	0.01%+0.5mA

### Stability<sup>[3]</sup> $\pm$ (output percentage + offset)

Voltage	0.03%+1mV	0.02%+2mV
Current	0.1%+3mA	0.05%+1mA

### Voltage Programming Speed (to within 1% of total variation range)

Rising	Full Load	11ms	50ms
	No Load	10ms	45ms
Falling	Full Load	13ms	20ms
	No Load	200ms	400ms

### OVP/OCP

Accuracy $\pm$ (output percentage + offset)	0.5%+0.5V/0.5%+0.5A
Activation Time	1.5ms (OVP $\geq$ 3V) <10ms (OVP < 3V and OCP)

### Machine

Dimension	235 mm (W) x 155 mm (H) x 384 mm (D)
Weight	8.5 kg

### Power Supply

AC Output (50Hz-60Hz)	100Vac $\pm$ 10%, 115Vac $\pm$ 10%, 220Vac $\pm$ 10%, 230Vac $\pm$ 10%
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### Environment

Working Temperature	Full rated value output: 0°C ~ 40°C At higher temperature: the output current falls into 50% at the maximum temperature 55°C
Cooling Method	Fan cooling

### Remarks:

- [1] Specifications are for one hour warm-up and at 25°C.
- [2] The maximum time required for regulating corresponding output when received APPLY and SOURce commands.
- [3] The variation of output within 8 hours after warm-up 30 minutes and both the load circuit and environment temperature are in constant conditions.