

# Discovery USB Programmable Power Supply (DPS3340) Specifications

---

## Triple-Output USB Programmable DC Power Supply

---

- Ambient temperature of 25 °C
- 30 minutes of warm-up time
- Using the included auxiliary power supply

## Power Supplies

---

All channels are independently controllable with independent current and voltage settings.

Specification		Output 1	Output 2	Output 3
DC Output Rating	Voltage	1 V to 5 V	-1 V to -15 V	1 V to 15 V
	Current	10 mA to 3 A	-10 mA to -500 mA	10 mA to 500 mA
Maximum Power		30 W (all channels, shared)		
		15 W	7.5 W	7.5 W
Programming Resolution	Voltage	0.36 mV	0.97 mV	0.97 mV
	Current	0.19 mA	0.03 mA	0.03 mA
Programming Accuracy	Voltage	±15 mV	±15 mV	±15 mV
	Current	15 mA	8 mA	5 mA
Readback Resolution	Voltage	7.8 mV	7.8 mV	7.8 mV
	Current	0.81 mA	0.15 mA	0.15 mA
Readback Accuracy	Voltage	±30 mV	±20 mV	±20 mV

Specification		Output 1	Output 2	Output 3				
	<b>Current</b>	±10 mA	±5 mA	±5 mA				
<b>Load Regulation</b>	<b>Voltage</b>	± lout · 0.06 V/A	± lout · 0.15 V/A	± lout · 0.15 V/A				
<b>Ripple and Noise</b>	<b>Voltage</b> (20 MHz.(.) Bandwidth):	< 30 mV p-p	< 10 mV p-p	< 25 mV p-p	<b>Current</b> (20 MHz.(.) Bandwidth):	< 7 mA p-p	< 5 mA p-p	< 3 mA p-p

**Device to Computer Interface** USB 2.0 Hi-Speed, Type B.

## Power Requirements

The DPS3340 requires an auxiliary power supply. A compatible power supply is included with the purchase of the DPS3340.

<b>Power Supply Voltage</b>	19 V +/- 5%
<b>Power Supply Current</b>	3.2 A maximum
<b>Power Consumption</b>	60 W maximum
<b>Barrel Connector Size</b>	5.5 mm x 1.65 mm

## Physical Characteristics

<b>Dimensions</b>	23.40 cm x 19.40 cm x 3.81 cm (9.2 in x 7.6 in x 1.5 in)
<b>Weight</b>	0.704 kg (1.55 lbs)

## Environmental

<b>Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Storage Temperature</b>	-20 °C to 60 °C (-4 °F to 140 °F)
<b>Operating Humidity</b>	10% to 80% RH non-condensing
<b>Storage Humidity</b>	5% to 95% RH non-condensing

---

<b>Cooling</b>	Convection-cooled. Ensure the ventilation holes are not obstructed. <sup>1)</sup> <sup>2)</sup>
<b>Pollution Degree</b>	2
<b>Maximum Altitude</b>	2,000 m

---

Indoor use only