

Upgrade to DP5700: Smaller, Faster, Smarter

The Next Generation of High-Density Power Supplies

The DP5700 Series programmable DC power supply delivers industry-leading power density up to 1.5 kW in ½ rack, 3.4 kW, 5 kW and 7.5 kW in just 1U of rack space, which is 2 times more than traditional supplies. Its advanced protection features, including unique under-voltage protection, safeguard your devices while its flexible series / parallel configurations expand your test capability. With modern connectivity, intuitive front-panel control, and a removable SD card option for secure environments, the DP5700 Series is the perfect power supply for today's demanding test applications.

Why upgrade from the N5700 / N8700 Series?

Higher Density with Half the Size of N5700 / N8700

Featured with an Arbitrary Generator for Variable Output

- Simulate real-world conditions
- Characterize device performance
- Conduct dynamic load testing

Adjustable Slew Control for Precise Output Control

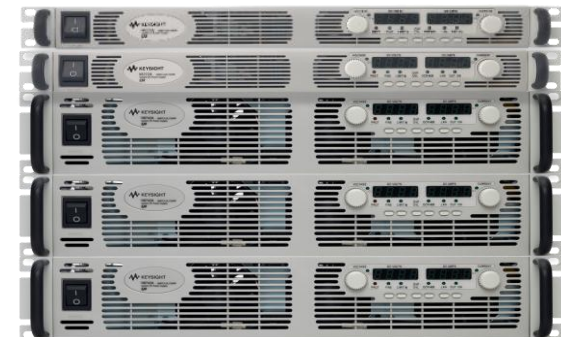
- Minimize voltage spikes
- Improve load transient response
- Optimize power delivery

Optional Removable SD for Enhanced Security

- Avoid data leakage
- Enables detailed record-keeping of cleaning and sanitization processes

Programmable Internal Resistance

- Mimic series resistance with the output terminal of the power supply
- Simulate as a source with a variable resistance, such as a battery



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Specification Comparison: DP5700 vs N5700 / N8700

Features	DP5700	N5700	N8700
Performance specifications	1.5kW / 3.4kW / 5 kW / 7.5 kW	1.5 kW	3.3 kW
Rack Size	1U x Half (1.5kW) 1U x Full (3.4kW, 5 kW, 7.5 kW)	1U x Full	2U x Full
Output ripple and noise	CV peak-to-peak	60 mV	60 mV
	CV rms	6 mV	8 mV
Load transient recovery time	<1 ms	<1 ms	<1 ms
Voltage programming accuracy	5 mV	6 mV	8 mV
Current programming accuracy	5.2 mA	4.52 mV	16.5 mA
Voltage measurement accuracy	5 mV	12 mV	16 mV
Current measurement accuracy	5.2 mA	10.4 mA	22 mA
Programmable resistance	Yes	No	No
Security (SSDF & Removable Storage)	Yes	No	No
Remote Interface	LAN, USB2.0, GPIB	LAN, USB2.0, GPIB	LAN, USB2.0, GPIB
Software	Pathwave Benchvue	Pathwave Benchvue	Pathwave Benchvue
Product Rating Used	600 V, 25 A, 1.5 kW 600 V, 340 A, 3.4 kW 600 V, 500 A, 5.0 kW 1,500 V, 375 A, 7.5 kW	60 V, 25 A, 1.5 kW	60 V, 55 A, 3.3 kW



Figure 2. 1.5 kW model 1U 1/2 rack DP5721A



Figure 3. 3.4 kW, 5 kW, 7.5 kW model 1U full rack DP5756AL



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