

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

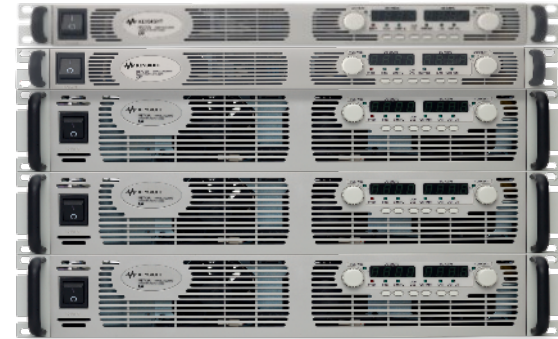


Figure 1. Upgrade your N5700 / N8700 to the new DP5700 for smaller, faster, and smarter power supply.

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 ½ rack DP5721A



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

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

This information is subject to change without notice. © Keysight Technologies, 2025 - 2026, Published in USA, May 15, 2026, 3125-1424.EN