Keysight N6700 Low-Profile Modular Power System (MPS), N67XX DC Power Modules and Electronic Load

Small, flexible and fast power supplies for ATE applications

Key features

- 50 W, 100 W, 300 W and 500 W DC power modules
- 3 mainframes: 400 W, 600 W, 1200 W
- True 1-rack unit height (1U)
- Mix-and-match over 30 DC power modules of 4 different performance levels: Basic, hi-performance, precision, source/measure units (SMU) and electronic load
- Stable, reliable DC outputs up to 150 V and up to 50 A
- USB, LAN (LXI Core) and GPIB standard
- Simultaneous voltage and current measurements with N6760 series, N6780 series SMUs and N6790 electronic load
- List mode software sequencer (arb mode)
- Built-in digitizer (scope mode) ¹
- Over-voltage, current and temperature protection
- Multiple-output front panel display and controls
- Virtual channels for easy parallel up to 100 A

¹. All modules except N6760 series and N6780 series SMUs require Option 054.

1. N6700C Low-profile MPS, 400W
2. N6701C Low-profile MPS, 600W
3. N6702C Low-profile MPS, 1200W
4. Bright LCD display, view status indicators and settings for all 4 outputs
5. System keys for easy access to front panel menus and settings
6. Navigation keys
7. Output keys
8. Numeric entry keys

Learn more at: www.keysight.com
<table>
<thead>
<tr>
<th>Mainframe</th>
<th>Basic modules</th>
<th>High performance</th>
<th>Precision modules</th>
<th>Source Measure Units (SMUs)</th>
<th>Electronic Load</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td>300 W, 600 W, 1200 W</td>
<td>50 W, 100 W, 300 W</td>
<td>50 W, 100 W, 300 W, 500 W</td>
<td>50 W, 100 W, 300 W, 500 W</td>
<td>20 W, 80 W</td>
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<tr>
<td><strong>Voltage</strong></td>
<td>Up to 350 V (with multiple modules in series)</td>
<td>Up to 150 V</td>
<td>Up to 60 V</td>
<td>Up to 60 V</td>
<td>Up to 20 V</td>
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<tr>
<td><strong>Current</strong></td>
<td>Up to 100 A (with two 50A modules in parallel)</td>
<td>Up to 20 A</td>
<td>Up to 50 A</td>
<td>Up to 50 A</td>
<td>Up to 8 A</td>
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<tr>
<td><strong>Voltmeter accuracy</strong></td>
<td>N/A</td>
<td>0.1% + 20 mV</td>
<td>0.05% + 10 mV</td>
<td>0.016% + 1.5 mV</td>
<td>0.025% + 50 µV</td>
</tr>
<tr>
<td><strong>Ammeter accuracy</strong></td>
<td>N/A</td>
<td>0.15% + 2 mA</td>
<td>0.1% + 4 mA</td>
<td>0.05% + 100 nA</td>
<td>0.025% + 8 nA</td>
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<tr>
<td><strong>Arbitrary waveform generator function</strong></td>
<td>Create waveforms up to 512 points</td>
<td></td>
<td></td>
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<tr>
<td><strong>Scope function</strong></td>
<td>Digitizes at up to 200 kHz, up to 512 k points, up to 18-bits (module dependent)</td>
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<tr>
<td><strong>Interface</strong></td>
<td>GPIB, USB, LAN (LXI Core)</td>
<td></td>
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</tbody>
</table>

1. Module and range dependent; best accuracy shown.
2. Code must be written by the user. Examples available online.

For R&D applications, consider the N6705C DC Power Analyzer

<table>
<thead>
<tr>
<th>Option</th>
<th>Option Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6709A</td>
<td>Special rack mount kit</td>
</tr>
<tr>
<td>N6708A</td>
<td>Filler module kit</td>
</tr>
</tbody>
</table>

**Example Applications**

- PC motherboard power on/off
- Sleep-mode current for RF power amps
- Military/police radio
- Base station power amps
- Automotive “crank” test
- Battery simulator/charger, current drain analysis, battery run down test
- Advanced functional test
- General purpose discrete component test

**Using Built-In Features**

- Output sequencing for proper turn on/off
- µA current measurement capabilities
- High-power (up to 500 W) with low-level (mA) measurement accuracy
- High-power (up to 500 W) with low-level (mA) measurement accuracy
- Built-in arbitrary waveform generator
- Fast output response, programmable output resistance, seamless measurement (measure µA to A in a single sweep)
- Seamless measurement (measure µA to A in a single sweep)
- 4-quadrant operation, bipolar power source, bipolar electronic load

Learn more at: www.keysight.com

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Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.