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

Small, flexible and fast power supplies for ATE applications

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

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.

Learn more at: www.keysight.com

	Mainframe	Basic modules	High performance	Precision modules	Source Measure Units (SMUs)	Electronic Load
	N6700C,N6701C,N6702C	N673X, N674X, N677X	N675X	N676X	N678X	N679X
Power	300 W, 600 W, 1200 W	50 W, 100 W, 300 W	50 W, 100 W, 300 W, 500 W	50 W, 100 W, 300 W, 500 W	20 W, 80 W	100W, 200W
Voltage	Up to 350 V (with multiple modules in series)	Up to 150 V	Up to 60 V	Up to 60 V	Up to 20 V	Up to 60V
Current	Up to 100 A (with two 50A modules in parallel)	Up to 20A	Up to 50A	Up to 50 A	Up to 8 A	Up to 20A (100W),Up to 40A (200W)
Voltmeter accuracy [1]	N/A	0.1% + 20 mV	0.05% + 10 mV	0.016% + 1.5 mV	0.025% + 50 µV	0.03% + 7.2mV
Ammeter accuracy [1]	N/A	0.15% + 2 mA	0.1% + 4 mA	0.05% + 100 nA	0.025% + 8 nA	0.04% + 400uA
Arbitrary waveform [2] generator function	Create waveforms up to 512 points					
Scope function [2]	Digitizes at up to 200 kHz, up to 512 k points, up to 18-bits (module dependent)					
Interface	GPIB, USB, LAN (LXI Core)					

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

Option	Option Description
N6709A	Special rack mount kit
N6708A	Filler module kit

Example Applications	Using Built-in Features
PC motherboard power on/off	Output sequencing for proper turn on/off
Sleep-mode current for RF power amps	µA current measurement capabilities
Military/police radio	High-power (up to 500 W) with low-level (mA) measurement accuracy
Base station power amps	High-power (up to 500 W) with low-level (mA) measurement accuracy
Automotive “crank” test	Built-in arbitrary waveform generator
Battery simulator/charger, current drain analysis, battery run down test	Fast output response, programmable output resistance, seamless measurement (measure uA to A in a single sweep)
Advanced functional test	Seamless measurement (measure uA to A in a single sweep)
General purpose discrete component test	4-quadrant operation, bipolar power source, bipolar electronic load

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