KEYSIGHT TECHNOLOGIES (AGILENT HP)

N6730 Series - 50W Modules

The Keysight (formerly Agilent) N6730 Series are 50 W basic DC power modules designed for use in the N6700 low-profile modular power system mainframes and the N6705 DC Power Analyzer. The series includes the N6731B through N6736B modules, providing programmable voltage and current, as well as essential measurement and protection features. These single-slot modules offer an economical solution for ATE systems and general-purpose device testing where basic performance is required.

SPECIFICATIONS

Physical

Operating Temperature	0 to 55 °C
Weight	1.23 kg kg

Output Ratings

Maximum Output Power	50 W (nominal class rating)
Number of Outputs per Module	1
Maximum Output Voltage	100 V (model N6736B)
Maximum Output Current	10 A (model N6731B)
Output Voltage (N6731B)	0 to 5 V
Output Current (N6731B)	0 to 10 A
Output Voltage (N6732B)	0 to 8 V
Output Current (N6732B)	0 to 6.25 A
Output Voltage (N6733B)	0 to 20 V
Output Current (N6733B)	0 to 2.5 A
Output Voltage (N6734B)	0 to 35 V
Output Current (N6734B)	0 to 1.5 A
Output Voltage (N6735B)	0 to 60 V
Output Current (N6735B)	0 to 0.8 A
Output Voltage (N6736B)	0 to 100 V
Output Current (N6736B)	0 to 0.5 A

Output Protection

Overvoltage Protection (OVP)	Yes (Programmable)
Overcurrent Protection (OCP)	Yes (Programmable)

General Characteristics

Remote Sense Maximum Voltage Drop	Up to 1 V per load lead

Physical and Mechanical

Mainframe Slot Requirement	1 slot per module
Compatible Mainframes	Keysight N6700, N6701, N6702, N6710, N6711, N6712, and N6705 Series
Cooling Method	Provided by mainframe fan

Accuracy

Voltage Programming Accuracy	0.1% + 19 mV to 100 mV (model dependent)
Current Programming Accuracy	0.15% + 5 mA to 10 mA (model dependent)
Voltage Readback Accuracy	0.1% + 19 mV to 100 mV (model dependent)
Current Readback Accuracy	0.15% + 5 mA to 10 mA (model dependent)

Performance

CV Ripple & Noise (Peak-to-Peak)	12 mV to 30 mV (model dependent, 20 Hz to 20 MHz)
CV Ripple & Noise (RMS)	2 mV to 18 mV (model dependent, 20 Hz to 20 MHz)
Load Regulation (Current)	2 mA
Line Regulation (Current)	1 mA
Ripple & Noise Bandwidth	20 Hz to 20 MHz

General

Output Isolation	±240 Vdc (from ground)

Environmental

Storage Temperature	-40 °C to 85 °C

Control & Software

Output Turn-On/Turn-Off Delay	0 to 3600 seconds (programmable)

Options

Output Relays (Option 761)	Output disconnect and polarity reversal relays
High-Speed Test Extension (Option 054)	Adds high-speed digitizing and advanced sequencing

TECHNOLOGY

Modular DC Power Supply

APPLICATIONS

Automated Test Equipment (ATE), Device Powering, Fixture Control