

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5700 Series - 1500W

The Keysight N5700 Series - 1500W is a compact 1U single-output DC system power supply, offering robust performance with remote programming capabilities and built-in protection features for a wide range of test applications.

SPECIFICATIONS

General

Interfaces	GPIB, LAN, USB
Display	LCD

Physical

Power Supply	100-240 VAC (47-63 Hz)
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	423 mm x 88.1 mm x 432.5 mm mm
Weight	16.3 kg kg
Rack Units	2U
Cooling	Fan-cooled (rear exhaust)

General Specifications

Series	N5700 Series
Output Power	Up to 1560W
Number of Outputs	Single
Form Factor	2U

Output Characteristics

Output Flexibility	Parallel and series connections of multiple supplies
Built-in Measurements	Yes
Analog Monitoring & Control	Output voltage and current
Remote Sense Compensation	5 V total lead drop
Output Isolation (Output to Chassis)	240 Vdc
Voltage Rise Time (no load)	<100 ms (10-90% Vmax)
Voltage Fall Time (no load)	<200 ms (90-10% Vmax, resistive load)

Protection Features

Overvoltage Protection	User-settable
Overcurrent Protection	User-settable (via current limit)
Overtemperature Protection	Automatic shutdown

Input Characteristics

Input Voltage Range (AC)	85-265 Vac
Input Frequency Range	47 Hz - 63 Hz
Power Factor	>0.99 (at 230 Vac, full load)
Efficiency	Up to 89%

Control and Interfaces

Programming Language Compatibility	SCPI command set
Driver Support	Available
Front Panel Controls	Yes

Safety and Regulatory

LXI Compliance	Class C
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Performance (Output)

Load Regulation (Voltage)	0.01% of V_max + 2 mV
Load Regulation (Current)	0.01% of I_max + 2 mA
Line Regulation (Voltage)	0.01% of V_max + 2 mV
Line Regulation (Current)	0.01% of I_max + 2 mA
Ripple & Noise (Voltage, 20 Hz - 20 MHz)	3 mVrms / 30 mVp-p
Ripple & Noise (Current, 20 Hz - 20 MHz)	6 mArms
Programming Accuracy (Voltage)	0.05% of V_max + 10 mV
Programming Accuracy (Current)	0.2% of I_max + 10 mA
Programming Resolution (Voltage)	10 mV
Programming Resolution (Current)	10 mA
Measurement Accuracy (Voltage)	0.05% of reading + 10 mV
Measurement Accuracy (Current)	0.2% of reading + 10 mA
Measurement Resolution (Voltage)	10 mV
Measurement Resolution (Current)	10 mA
Transient Response Time	< 1 ms (50% load step, 50 mV recovery)
Remote Sensing	Yes

Environmental

Storage Temperature	-40 to 70 °C
Humidity	20% to 80% RH, non-condensing
Altitude	Up to 2,000 m (Operating), Up to 4,500 m (Non-operating)

Power

Maximum Input Power	~2000 VA
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Compliance

Safety Standards	EN/IEC 61010-1; UL 61010-1; CSA C22.2 No. 61010-1
EMC Standards	EN 61326-1; CISPR 11 Group 1 Class A; IEC 61000-4-2, -3, -4, -5, -6, -8, -11
CE Mark	Yes
RoHS Compliance	RoHS 2011/65/EU
WEEE Compliance	WEEE 2012/19/EU

Connectivity & Control

Digital I/O	8-bit (4 input, 4 output) on accessory connector
USB Interface	USB 2.0, Type B connector
LAN Interface	10/100Base-T, RJ-45 connector
GPIO Interface	IEEE-488.2

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