KEYSIGHT TECHNOLOGIES (AGILENT HP)

N6756A

The Keysight N6756A (formerly Agilent) is a 500 W high-performance, autoranging DC power module designed for the N6700 Low-Profile Modular Power System and N6705 DC Power Analyzer. This double-wide module offers low noise, high-accuracy sourcing and measurement, and exceptionally fast programming speeds, making it ideal for high-throughput ATE applications and precision bench testing.

SPECIFICATIONS

General

Interfaces	GPIB, LAN, USB, LXI Class C (via mainframe)

Physical

Power Supply	Powered by mainframe (N6700 Low-Profile MPS or N6705 DC Power Analyzer)
Operating Temperature	0 to 55 °C °C

Output Ratings

Maximum Voltage Rating	60 V
Maximum Current Rating	17 A
Maximum Power Rating	500 W
Output Autoranging Capability	Yes
Output Isolation Voltage	240 VDC

Programming Accuracy

Voltage Programming Accuracy	0.06% + 25 mV (at 23°C ±5°C)

Protection Features

Over-Voltage Protection (OVP) Maximum Setting	66 V

Remote Sensing Capability

Maximum Sense Lead Voltage Drop	1 V per load lead

Operation Modes

Series Operation	Supported (identically rated outputs only)
Parallel Operation	Supported (identically rated outputs only)

Physical and Environmental Specifications

Module Slot Width Requirements	2 slots

Measurement Accuracy

Voltage Measurement Accuracy	0.05% + 25 mV

Performance

Transient Response Time	< 100 µs
Command Processing Time	≤ 1 ms

Output Characteristics

Voltage Programming Rise Time (10% to 90% at full load)	1.5 ms
Voltage Programming Fall Time (90% to 10% at full load)	1.5 ms
Voltage Programming Fall Time (90% to 10% at no load)	150 ms

TECHNOLOGY

Modular DC Power Supply

APPLICATIONS

ATE Systems, Bench Testing, Power Analysis