

KEYSIGHT TECHNOLOGIES (AGILENT HP)

6650 Series - 500W

The Keysight (Agilent/HP) 6650 Series comprises 500W high-performance, single-output programmable DC system power supplies. Designed for design verification and automated production testing, these units feature fast, low-noise outputs, built-in measurements, and standard overvoltage/overcurrent protection for DUT safety. The series supports standard GPIB and RS-232 interfaces with SCPI command programming, as well as an advanced serial link feature that allows up to 16 supplies to be controlled through a single GPIB address.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488), RS-232, Analog
Output Isolation	±240 Vdc maximum (between any output terminal and chassis ground)

Physical

Power Supply	100, 120, 220, or 240 VAC (configuration dependent), 47 - 63 Hz
Operating Temperature	0 to 55 °C

DC Output Ratings

Maximum Output Power	500W (nominal series rating)
Output Configuration	Single Output
6651A Output Rating	0 - 8 V, 0 - 50 A
6652A Output Rating	0 - 20 V, 0 - 25 A
6653A Output Rating	0 - 35 V, 0 - 15 A
6654A Output Rating	0 - 60 V, 0 - 9 A
6655A Output Rating	0 - 120 V, 0 - 4 A

Interfaces and Connectivity

Standard Digital Interfaces	GPIB, RS-232
Command Set	SCPI
Serial Link Feature	Control up to 16 supplies through one GPIB address

Sensing and Control

Analog Programming	Voltage and Current control
Multi-Unit Support	Parallel and series connections of multiple supplies supported

Readback and Measurements

Built-in Measurements	Voltage and Current
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Protection Features

Protection Features	Ensure DUT safety (OVP / OCP)
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Performance

6651A Ripple & Noise (20 Hz to 20 MHz)	300 μ V rms / 3 mV p-p
6652A Ripple & Noise (20 Hz to 20 MHz)	300 μ V rms / 3 mV p-p
6653A Ripple & Noise (20 Hz to 20 MHz)	400 μ V rms / 4 mV p-p
6654A Ripple & Noise (20 Hz to 20 MHz)	500 μ V rms / 5 mV p-p
6655A Ripple & Noise (20 Hz to 20 MHz)	500 μ V rms / 5 mV p-p
Operating Mode	Constant Voltage (CV) and Constant Current (CC) with automatic crossover

Environmental

Cooling	Thermostatically controlled fan
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TECHNOLOGY

Programmable DC Power Supply

APPLICATIONS

Automated Test, Design Verification, Production Testing

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