

KEYSIGHT TECHNOLOGIES (AGILENT HP)

6610 Series - 40-50W

The Keysight (formerly Agilent/HP) 6610 Series includes the 6611C, 6612C, 6613C, and 6614C single-output programmable DC power supplies. Providing 40 W to 50 W of power, these compact, high-performance units offer a one-box solution with low-noise outputs and built-in measurement capabilities. They feature fast output programming with active downprogramming, front-panel control, and standard GPIB and RS-232 interfaces utilizing the SCPI command set for flexible automated test system integration.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232
Warm-up Time	30 minutes (to meet precision specifications)

Physical

Power Supply	100 / 120 / 220 / 240 VAC $\pm 10\%$, 47-63 Hz, 250 VA max
Operating Temperature	0 to 55 °C
Dimensions (W×H×D)	212.8 x 88.1 x 348.3 mm
Weight	8.85 kg
Form Factor	2U, half-rack width
Cooling	Fan cooled

Output Ratings

Number of Outputs	1
Maximum Output Power	40 W / 50 W (model dependent)
Output Voltage Range	0-8 V / 0-20 V / 0-50 V / 0-100 V (model dependent)
Output Current Range	0-0.5 A / 0-1 A / 0-2 A / 0-5 A (model dependent)

Dynamic Response and Timing

Output Programming Response	Fast output programming with active downprogramming
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Supplemental Characteristics

Series Operation Capability	Supported
Parallel Operation Capability	Supported

Interfaces and Control

Standard Control Interfaces	GPIB, RS-232
Command Routing/Protocol	SCPI command set

Power Requirements

Maximum Input Power	250 VA
Line Frequency	47 to 63 Hz

Safety & Isolation

Isolation Voltage	±240 VDC maximum between any output terminal and chassis ground
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Environmental

Storage Temperature	-40 °C to 70 °C
Operating Altitude	Up to 2,000 m (6,560 ft)

Performance

Transient Response Time	< 50 µs (to within 15 mV for a 50% load change)
Remote Sense Capability	Compensates for up to 2 V load-lead drop per lead

Power

AC Input Voltage	100 / 120 / 220 / 240 VAC ±10% (configuration/option dependent)
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APPLICATIONS

Test and Measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.