

KEYSIGHT TECHNOLOGIES (AGILENT HP)

6680 Series - 5000W

The Keysight (formerly Agilent/HP) 6680 Series encompasses a family of 5000 W single-output programmable DC system power supplies. These reliable, low-noise supplies are designed for automated test equipment (ATE) and long-term burn-in applications. They feature built-in DMM-quality measurement systems, extensive DUT protection including overvoltage and overcurrent safeguards, and selectable compensation for powering inductive loads. The series supports remote programming via GPIB using the standard SCPI command set, and includes a serial link system that allows up to 16 power supplies to be controlled through a single GPIB address.

SPECIFICATIONS

General

Interfaces	GPIB
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Physical

Operating Temperature	0 °C to 50 °C °C
Dimensions (W×H×D)	425.5 x 221.5 x 674.6 mm
Rack Mount Height	5U
Cooling	Fan cooled (variable speed, exhausts at rear)

DC Output Ratings

Maximum Output Power	Up to 5120 W (model dependent)
Output Voltage Range	Up to 40 V (model dependent)
Output Current Range	Up to 875 A (model dependent)
Output Channels	1

Control and Interfaces

Standard Communication Interfaces	GPIB
Programming Languages Supported	SCPI
Multi-Unit Control	Up to 16 supplies through one GPIB address via serial link system

Protection Features

Over-Voltage Protection (OVP)	Yes
Over-Current Protection (OCP)	Yes

Environmental

Storage Temperature	-40 °C to 75 °C
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Performance

Transient Response Time	900 µs (to recover within 100 mV for a 50% to 100% or 100% to 50% load step)
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Inputs & Outputs

Output Connections	Rear panel bus bars
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TECHNOLOGY

Programmable DC Power Supply

APPLICATIONS

Automated test equipment (ATE), long-term burn-in applications, manufacturing test, and powering inductive loads

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