

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E3633A

The Keysight (Agilent/HP) E3633A is a high-performance, 200 W single-output programmable DC power supply. Designed for both benchtop and automated system use, it features a dual-range output (8 V, 20 A or 20 V, 10 A) to accommodate a variety of testing needs. The E3633A delivers precise built-in measurements and extremely low output ripple and noise. It comes standard with GPIB and RS-232 interfaces for remote programming and system integration.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232
Display	Vacuum Fluorescent Display (VFD)
Stored States	3 user-configurable states

Physical

Power Supply	100 / 115 / 230 Vac $\pm 10\%$, 47 to 63 Hz (switchable/configuration dependent)
Operating Temperature	0 to 40 °C
Dimensions (W×H×D)	212.8 × 132.6 × 348.3 mm
Weight	9.5 kg
Cooling	Fan cooled

Output Ratings

Number of Outputs	1
Maximum Output Power	200 W
Output Voltage Range 1	0 to 8 V
Output Current Range 1	0 to 20 A
Output Voltage Range 2	0 to 20 V
Output Current Range 2	0 to 10 A

Programming and Readback Accuracy

Voltage Programming Accuracy	0.05% + 10 mV (@ 25°C $\pm 5^\circ\text{C}$)
Current Programming Accuracy	0.2% + 10 mA (@ 25°C $\pm 5^\circ\text{C}$)
Voltage Readback Accuracy	0.05% + 5 mV (@ 25°C $\pm 5^\circ\text{C}$)
Current Readback Accuracy	0.15% + 5 mA (@ 25°C $\pm 5^\circ\text{C}$)

Ripple and Noise (20 Hz to 20 MHz)

Normal Mode Voltage (Vp-p)	<3 mVpp
Normal Mode Voltage (Vrms)	<350 μ Vrms
Normal Mode Current (Irms)	<2 mA rms
Common Mode Current (Irms)	<1.5 μ A rms

Performance

Load Regulation (Voltage)	< 0.01% + 2 mV
Load Regulation (Current)	< 0.01% + 250 μ A
Line Regulation (Voltage)	< 0.01% + 2 mV
Line Regulation (Current)	< 0.01% + 250 μ A
Transient Response Time	< 50 μ s (recovery to within 15 mV for a 50% load change)
Temperature Coefficient (Voltage)	0.01% + 3 mV per $^{\circ}$ C
Temperature Coefficient (Current)	0.01% + 3 mA per $^{\circ}$ C
Command Processing Time	< 50 ms

Protection

Over-Voltage Protection (OVP) Accuracy	0.5% + 0.5 V
Over-Current Protection (OCP) Accuracy	0.5% + 0.5 A

Features

Remote Sense Capability	Compensates for up to 1 V drop per load lead
-------------------------	--

Environmental

Storage Temperature	-20 $^{\circ}$ C to 70 $^{\circ}$ C
---------------------	-------------------------------------

Safety & Protection

Isolation (Output to Ground)	$\pm$ 240 Vdc maximum
------------------------------	-----------------------

Power

AC Input Frequency	47 to 63 Hz
--------------------	-------------

TECHNOLOGY

Programmable Linear DC Power Supply

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.