

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E3640 Series - 30-80W

The Keysight E3640 Series (30-80W) of programmable DC power supplies offers a blend of benchtop usability and system integration features, including GPIB and RS-232 interfaces, low-noise outputs, and overvoltage protection, suitable for various test and measurement applications.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232
Display	4-digit LED

Physical

Power Supply	100/120/220/240 VAC ($\pm 10\%$), 47-63 Hz
Operating Temperature	0 to 40 °C °C
Dimensions (W×H×D)	212.8 mm × 88.1 mm × 348.8 mm mm
Weight	4.7 - 4.9 kg kg
Cooling	Fan-cooled
Rack Mount Kit	Available (Option 1CM / 1CN)

General Specifications

Product Series	E3640 Series
Number of Outputs	1
Total Power	30 W to 80 W
Application Type	Benchtop, ATE

Output Ratings

Maximum Output Power (Output 1)	Up to 80 W (model dependent)
Output Voltage Range (Output 1)	Model dependent
Output Current Range (Output 1)	Model dependent

Protection Features

Over Voltage Protection (OVP)	Yes
Over Current Protection (OCP)	Yes
Over Temperature Protection (OTP)	Yes
Reverse Polarity Protection	Yes

Programming Characteristics

Programming Language	SCPI
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Interface and Connectivity

Driver Support	Available
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User Interface

Front Panel Controls	Yes
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Ordering Information and Accessories

Available Models	E3640A, E3641A, E3642A, E3643A, E3644A, E3645A
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Output 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
Ripple & Noise (Voltage p-p)	<5 mVp-p
Ripple & Noise (Voltage rms)	<0.5 mVrms
Ripple & Noise (Current rms)	<1 mArms
Transient Response	<50 μ s

Programming

Programming Accuracy (Voltage)	<0.05% + 10 mV
Programming Accuracy (Current)	<0.2% + 10 mA
Programming Resolution (Voltage)	10 mV
Programming Resolution (Current)	1 mA

Measurement

Readback Accuracy (Voltage)	<0.05% + 10 mV
Readback Accuracy (Current)	<0.15% + 5 mA
Readback Resolution (Voltage)	10 mV
Readback Resolution (Current)	1 mA

Environmental

Storage Temperature	-40 to 70 °C
Humidity	95% RH (0 to 40 °C, non-condensing)
Operating Altitude	0 to 2000 m
Non-Operating Altitude	0 to 4600 m

Compliance

Safety Compliance	IEC 61010-1
EMC Compliance	IEC 61326-1
Safety Certifications	UL, CSA, CE (per applicable directives)

Connectivity

Remote Interface Types	GPIB, RS-232 (standard)
Remote Sense	Yes

Control

Output On/Off Control	Front panel, Remote
Save/Recall States	10 (Front panel & Remote)

Performance

Output Tracking Mode	Yes (Dual output models)
Isolation Voltage (Output to Chassis)	240 VDC
Common Mode Current (Output to Chassis)	<1 μ A rms

Power Input

AC Input Voltage	100 VAC, 120 VAC, 220 VAC, 240 VAC (switchable)
AC Input Frequency	47-63 Hz (standard), 400 Hz (option dependent)
Maximum Input Power (VA)	up to 140 VA (model dependent)

APPLICATIONS

Test & Measurement, Automated Test Equipment (ATE)

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