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Power forward

Designs change—and so should your DC power supply. Meet the E36100, engineered by Keysight to power your designs safely and quietly during manual tests or automated sequences. From every angle—size, display, and I/O—the E36100 will impress you. Add one to your bench and power forward.

- Choose the best model for your needs: five models offer up to $5\,\text{A}$ or 100 V
- Save space on your bench or in the rack with the compact, 2U ¼-rack form factor
- Connect for computer control with standard LAN (LXI Core) and USB connectivity
- Perform manual tasks quickly with the intuitive on-screen menu system
- Easily view the high-contrast OLED display from anywhere on your bench, even from a sharp angle
- Protect your device under test (DUT) with overvoltage and overcurrent detection
- Power your DUT with confidence through excellent accuracy in programming and readback

Accurate, reliable power

The E36100 Series is the latest addition to Keysight's industry standard family of bench power supplies.

Power your DUT with excellent voltage and current programming and readback accuracy. Use the power supply's highly accurate low-current measurement feature for demanding measurements. Protect your DUT with built-in overvoltage and overcurrent protection, and count on the built-in overtemperature protection to keep your power supply safe.

Excellent front-panel usability

The clean design of the E36100 Series front-panel lets you become productive with the unit very quickly. The easy-to-use rotary knob and keypad interface allows you to set the output at your desired resolution quickly and easily, with digit-by-digit control. You can store and recall up to 10 complete power supply setups from non-volatile memory in order to quickly change instrument states. The output on/off key quickly turns the output on and off.



- A Tough carrying handle
- B Information-packed, high-contrast OLED display; easily viewable even from sharp angles
- C Rotary knob for quick and easy configuration
- D Fast voltage/current setting and front-panel electronic calibration
- E Menu key opens intuitive user interface
- F Front-panel lock prevents accidental changes during tests
- G Output enable/disable switch to protect your DUT quickly
- H Dual-position power switch
- I Sense terminals
- J Output terminals
- K Earth ground reference point

Fast, industry-standard programming

Every E36100 Series model ships standard with both LAN (LXI Core) and USB (TMC488). The easy-to-use SCPI (Standard Commands for Programmable Instruments) programming language lets you create fast and simple programs with transient response faster than 50 µs and fast command processing time–less than 10 ms. You can also program the instrument with the power supply's Interchangeable Virtual Instruments (IVI) driver.

Simple, powerful soft front panel

When you cannot be near your DUT, open your browser and control the instrument via the power supply's bullt-in Web interface, with a look and feel that replicates the front-panel experience.



BenchVue control and visualization

BenchVue software for the PC makes it simple to connect, control, and view Keysight power supplies simultaneously with other Keysight bench instruments without programming.

- Visualize the outputs of multiple power supplies simultaneously
- Log data, capture screen shots, and save a system state
- Recall a past state of your bench to replicate results
- Export measurement data in desired format fast
- Quickly access manuals, drivers, FAQs and videos
- Monitor and control bench from mobile devices

The power supply app within BenchVue lets you control power supplies, visualize voltage and current output, log data, and annotate captured data (included in BV0000A, available as a free download. Upgrade to the Pro version (BV0003A) for unrestricted data logging with limit checking and status alerts. Use the companion BenchVue Mobile app to monitor and respond to longrunning tests from anywhere.



Easy power and I/O connection

Connect for computer control with standard LAN (LXI Core) and USB connectivity. Use the security slot to keep the supply on your bench.



Do you need to convert the power supply for different mains power? The two switches on the bottom of the instrument make it straightforward. See the product manual for details.



Performance Specifications

	Tolerance %	E36102A	E36103A	E36104A	E36105A	E36106A
DC Output Rating (0 to 40 °C)						
Max. Voltage		6 V	20 V	35 V	60 V	100 V
Max. Current		5 A	2 A	1 A	0.6 A	0.4 A
Load regulation ± (% of output + offset)						
Voltage	<0.01% +	2 mV	3 mV	6 mV	10 mV	20 mV
Current	<0.02% +	250 μΑ	100 µA	50 μΑ	30 µ A	20 µA
Line regulation ± (% of output + offset)						
Voltage	<0.01% +	1 mV	2 mV	4 mV	7 mV	12 mV
Current	<0.02% +	250 μΑ	100 µA	50 μΑ	30 µ A	20 µA
Ripple and Noise (20 Hz to 20 MHz)						
Voltage	RMS	350 µV	2 mV	4 mV	5 mV	15 mV
	Pk-Pk	10 mV	30 mV	60 mV	100 mV	150 mV
Current	RMS	2 mA	1 mA	400 µA	200 µA	160 µ A
Accuracy 12 Months (23 °C \pm 5 °C)						
Programming Accuracy ± (% of output + offset)						
Voltage	0.05% +	3 mV	7 mV	12 mV	20 mV	40 mV
Current	0.05% +	5 mA	1 mA	0.6 mA	0.4 mA	0.3 mA
Readback Accuracy ± (% of output + offset)						
Voltage	0.05% +	3 mV	5 mV	8 mV	12 mV	20 mV
Current	0.05% +	4 mA	1 mA	0.5 mA	0.3 mA	0.2 mA
Small Current	0.25% +	40 µA				
Max Small Current		20 mA	8 mA	4 mA	3 mA	2 mA
Transient Response		<50 µs				

Typical Characteristics

		E36102A	E36103A	E36104A	E36105A	E36106A	
Resolution							
Program	Voltage	360 µV	1.2 mV	2.1 mV	3.6 mV	6.0 mV	
	Current	300 µA	120 µA	60 µ A	36 µA	24 µA	
Readback	Voltage	240 μV	800 μV	1.4 mV	2.4 mV	4 mV	
	Current	200 µA	80 µA	40 µA	24 μΑ	16 µA	
	Small Current	5 μΑ	960 nA	280 nA	180 nA	120 nA	
Program (Meter)	Voltage	1 mV	1 mV	2 mV	3 mV	6 mV	
	Current	1 mA	1 mA	1 mA	1 mA	1 mA	
Readback (Meter)	Voltage	1 mV	1 mV	1 mV	3 mV	6 mV	
	Current	1 mA	1 mA	1 mA	1 mA	1 mA	
	Small Current	1 μΑ	1μΑ	1μΑ	1μΑ	1μΑ	
Ripple and Noise (20 Hz to 20 MHz)							
Current	RMS	2 mA	1 mA	400 µA	200 µA	160 µA	
Overvoltage Protection (OVP) ± (% of	f output + offset)						
Accuracy	0.20%	0.5 V	1.5 V	3 V	5 V	8 V	
Activation Time (average time for the	e output to start to drop after	OVP or OCP cond	ition occurs)				
Overvoltage (OVP)	< 1.5 ms when the trip voltage is greater than or equal to 3 V						
Overcurrent (OCP)	< 1.5 ms						
Command Processing Time	< 10 ms						
Programming Temperature Coefficie	nt per °C (% of output + offse	t)					
Voltage	0.005%	180 μV	600 μV	1.05 mV	1.8 mV	3.0 mV	
Current	0.01%	250 μΑ	100 µA	50 μΑ	60 µA	40 µA	
Readback Temperature Coefficient p	er °C (% of output + offset)						
Voltage	0.005%	12 μV	40 μV	70 µV	120 μV	200 µV	
Current	0.01%	250 μΑ	100 µA	50 μΑ	30 µA	20 µA	
Remote Sense (max. voltage in load	lead)						
Output can function as described with	up to a 1-V drop per load lead						
Up/down programming settling time	to within 1% of total excursion	on					
Up, full load		25 ms	50 ms	50 ms	50 ms	100 ms	
Up, no load		25 ms	50 ms	50 ms	50 ms	100 ms	
Down, full load		25 ms	25 ms	25 ms	30 ms	35 ms	
Down, no load		100 ms	150 ms	150 ms	250 ms	300 ms	
I/O Interfaces	LAN (LXI Core) and	USB 2.0 FS (TMC4	88)				

Typical Characteristics

	E36102A	E36103A	E36104A	E36105A	E36106A		
Environmental Conditions							
Operating Environment	Indoor use, installation category II (for AC input), pollution degree 2						
Operating Temperature Range	0 °C to 40 °C						
Storage Temperature	–20 to 70 °C						
Relative Humidity	Up to 95%						
Altitude	Up to 2000 meters						
Electromagnetic Compatibility	Compliant with EMC Directive (2004/10	08/EC)					
	IEC 61326-1:2012/EN 61326-1:2013 Group 1 Class A						
	Canada: ICES-001:2004						
	Australia/New Zealand: AS/NZS						
	South Korea KC mark						
Safety	UL 61010-1 3rd edition, CAN/CSA-C22.2 No. 61010-1-12, IEC 61010-1:2010 3rd edition						
AC Input	100, 115, or 230 V input (± 10%), 47 to 63 Hz, 200 VA power consumption						
Net Weight	3.7 kg or 8.1 lbs.						
	(approx.)						
Dimensions	2U, ¼ rack (98.5 mm (H), 106.4 mm (W), 367.7 mm (D))					

Ordering Information

Keysight E36100 Series Power Supplies E36102A DC power supply, single-output, 6 V, 5 A, 30 W E36103A DC power supply, single-output, 20 V, 2 A, 40 W E36104A DC power supply, single-output, 35 V, 1 A, 35 W E36105A DC power supply, single-output, 60 V, 0.6 A, 36 W E36106A DC power supply, single-output, 100 V, 0.4 A, 40 W

Standard Shipped Accessory

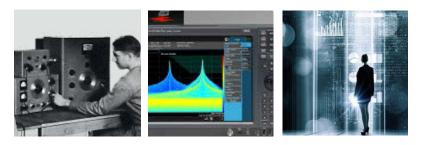
AC power cord (based on destination country)

Ordering Options

Opt. 0E3 230 VAC ± 10% Opt. 0EM 115 VAC ± 10% Opt. 0E9 100 VAC ± 10% Opt. UK6 Commercial calibration with test result data E3600A-100 Test lead kit

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