

Specifications

Model Power Output	E36154A 800W	E36155A 800W
No. of Channel	1	1
DC Output Rating (0 to 40 °C)	0 to 30 V	0 to 60 V
	0 to 80 A	0 to 40 A
Load Regulation ± (% of output + offset)		
Voltage	< 0.01% + 2 mV	
Current	< 0.1% + 2 mA	
Line Regulation ± (% of output + offset)		
Voltage	< 0.01% + 2 mV	
Current	< 0.1% + 2 mA	
Output Ripple and Noise (at approximately 23 °C)		
Normal mode voltage, V _{pp} (20 Hz to 20 MHz)	< 75 mV	
Normal mode voltage, V _{rms} (20 Hz to 10 MHz)	< 5 mV	
Programming Accuracy ± (% of output + offset) at 23 °C ± 5 °C for 12 months.		
Voltage	0.03% + 6 mV	0.03% + 10 mV
Current	0.1% + 20 mA	0.1% + 10 mA
Readback Accuracy ± (% of output + offset) at 23 °C ± 5 °C for 12 months.		
Voltage	0.04% + 6 mV	0.04% + 10 mV
Current	0.1% + 20 mA	0.1% + 10 mA
Low Range Current ¹	0.1% + 5 mA	0.1% + 4 mA
Load Transient Recovery Time (Time to recover within the settling band following a load change from 50% to 100%; and from 100% to 50% of full load)		
Voltage Settling Band	75 mV	150 mV
Time	< 1 ms	

1. Low Range Current 0 to 1% max A.

Typical Characteristics

Supplementary characteristics

Model	E36154A	E36155A
Programming Resolution (Remote)		
Voltage	2 mV	4 mV
Current	5 mA	3 mA
Readback Resolution (Remote)		
Voltage	1 mV	2 mV
Current	3 mA	2 mA
Low Range Current ¹	50 μ A	30 μ A
Programming Resolution (Front Panel)		
Voltage		1 mV
Current		1 mA
Readback Resolution (Front Panel)		
Voltage		1 mV
Current		1 mA
Low Range Current ¹		100 μ A
Output Ripple and Noise (20 Hz to 10 MHz)		
Normal Mode Current		< 1 mArms
Overvoltage Protection (OVP) \pm (% of output + offset)		
Programming Accuracy		0.2% + 0.4 V
Activation Time (Average time for the output to start dropping after OVP and OCP condition occurs)		
Overvoltage (OVP)		< 5 ms
Overcurrent (OCP)		< 5 ms
Command Processing Time		
		< 10 ms
Programming Temperature Coefficient per $^{\circ}$C (% of output + offset)		
Voltage		0.005% + 0.5 mV
Current		0.01% + 1 mA
Readback Temperature Coefficient per $^{\circ}$C (% of output + offset)		
Voltage		0.005% + 0.5 mV
Current		0.01% + 1 mA

1. Low Range Current 0 to 1% max A.

Supplementary characteristics continued

Model	E36154A	E36155A
Remote Sense (Maximum voltage in load lead)		
	0.7 V	
Up/Down Programming Settling Time to Within % of the Total Excursion		
Up, Full Load	< 12 ms (10% of total excursion) < 30 ms (1% of total excursion)	< 12 ms (10% of total excursion) < 30 ms (1% of total excursion)
Up, No Load	< 12 ms (10% of total excursion) < 30 ms (1% of total excursion)	< 12 ms (10% of total excursion) < 30 ms (1% of total excursion)
Down, Full Load	< 12 ms (10% of total excursion) < 30 ms (1% of total excursion)	< 12 ms (10% of total excursion) < 30 ms (1% of total excursion)
Down, No Load	< 12 ms (10% of total excursion) < 30 ms (1% of total excursion)	< 20 ms (10% of total excursion) < 30 ms (1% of total excursion)
Connectivity		
	USB, LAN and GPIB (Optional)	

Interface capabilities

GPIB	SCPI – 1999, IEEE 488.2 compliant interface
LXI compliance	Class C
USB 2.0	Requires Keysight IO Library version 17.2.208 or newer
10/100 LAN	Requires Keysight IO Library version 17.2.208 or newer

Digital control characteristics

Digital Control Characteristics	
Maximum voltage ratings	+16.5 VDC/-5 VDC between pins (pin 4 is internally connected to chassis ground)
Pins 1 and 2 as Fault output	Maximum low-level output voltage = 0.5 V @ 4 mA Maximum low-level sink current = 4 mA Typical high-level leakage current = 1 mA @ 16.5 VDC
Pins 1 - 3 as digital/trigger outputs (pin 4 = common)	Maximum low-level output voltage = 0.5 V @ 4 mA; 1 V @ 50 mA; 1.75 V @ 100 mA Maximum low-level sink current = 100 mA Typical high-level leakage current = 0.8 mA @ 16.5 VDC
Pins 1 - 3 as digital/trigger inputs and pin 3 as inhibit input (pin 4 = common)	Maximum low-level input voltage = 0.8 V Minimum high-level input voltage = 2 V Typical low-level leakage current = 2 mA @ 0 V (internal 2.2k pull-up) Typical high-level leakage current = 0.12 mA @ 16.5 VDC

Feature characteristics

Feature Characteristics	
Data logger function	Measurement interval from 10 ms to 60 sec with a maximum duration of 10,000 hours
Adjustable voltage slew rate	Control from 20 ms to 15,000 sec for 0 to max V transition
LIST mode programming	Up to 100 points with adjustable dwell time <i>(Without E36150ADVU Option)</i> Up to 512 points with adjustable dwell time <i>(With E36150ADVU Option)</i>
Scope View <i>(Requires E36150ADVU Option)</i>	Number of traces – three for voltage, current and power. Fastest sample rate at 10 μ s / 100 kHz and up to 256K samples (maximum buffer size per trace or bandwidth)
AWG <i>(Requires E36150ADVU Option)</i>	Up to 512 points with adjustable dwell time.
Peak Power Handling	Up to 2400W for at least 7 ms

Environmental conditions

Environmental Conditions	
Operating environment	Indoor use, installation category II (for AC input), pollution degree 2
Operating temperature range	0 to 40 °C
Storage temperature	-20 to 70 °C
Relative humidity	80% RH at temperature up to 40 °C, non-condensing
Altitude	Up to 2000 meters
Electromagnetic compatibility	Compliant with EMC Directive (2004/108/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 3 rd edition, CAN/CSA-C22.2 No. 61010-1-12, IEC 61010-1:2010 3 rd edition Sound pressure L_p <70dB(A) at operator position Normal operation according to EN 27779
AC input	~100 - 230 VAC (\pm 10%), 50/60 Hz, <1300VA

Physical characteristics

Model	E36154A	E36155A
Overall dimension, mm (H x W x D)	145 X 216 x 495	
Net body dimension (without safety cover, strap handle, feet, and front binding post), mm (H x W x D)	133 x 213 x 359	
Net weight	6.64 kg	

Ordering information

Keysight E36150 Series Power Supplies

- E36154A Autoranging DC power supply 30V, 80A, 800W
- E36155A Autoranging DC power supply 60V, 40A, 800W

Standard shipped accessory

- AC power cord (based on destination country)
- Detachable front binding post

Ordering options

- Option SEC NISPOM and file security
- Option UK6 Commercial calibration with test result data
- Option 1A7 ISO17025 Cal with uncertainty

Upgradeable options (available post-purchase)

- E363GPBU GPIB user installable interface module
- E36150ADVU Advance features of Scope View and AWG capabilities

Rackmount kits

- 1CM116A Rack mount flange kit with one flange bracket, one half-module bracket
- 1CM104A Rack mount flange kit with two flange brackets
- 1CM105A Rack mount flange kit without handles and two flange brackets
- 1CN107A Handle kit with two front handles
- 1CP108A Rack mount flange and handle kit with two brackets and front handles

Product Jump Stations

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