

E36150 Series Autoranging Bench DC Power Supply

High Power, Safe and Easy to Use

The E36150 Series power supplies are designed for versatility and are perfect for various applications, including R&D, design validation, reliability, and quality testing across all types of industries. Both E36154A (30V; 80A) & E36155A (60V; 40A) feature an autoranging architecture and peak power handling capabilities allowing you to meet your various test requirements with plenty of usable power and flexibility.



Keysight E36150 Series DC power supply

Option	Description
E363GPBU	GPIB user installable interface module
E36150ADVU	Advanced features of Scope View and AWG capabilities
E36150ATMU	Automovtive features New
SEC	NISPOM and file security
UK6	Commercial calibration with test result data
1A7	ISO17025 Cal with uncertainty

More Information: www.keysight.com/find/E36150

	E36154A	E36155A	
Power output	800W	800W	
No. of channel	1	1	
DC output rating (0 to 40 °C)	0 to 30 V 0 to 80 A	0 to 60 V 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, Vpp (20 Hz to 20 MHz)		< 75 mV	
Normal mode voltage, Vrms (20 Hz to 10 MHz)		< 7.5 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	
Output ripple and noise (20 Hz to 10 MHz)			
Normal mode current		< 1 mArms	
Command processing time			
		< 10 ms	
Up/down programming settling time to within % of the total excursion			
Up, Full load	Standard	< 15 ms (10% of total excursion) < 30 ms (1% of total excursion)	< 15 ms (10% of total excursion) < 30 ms (1% of total excursion)
	With ATMU Options (New)	< 2 ms (10% of total excursion) < 4 ms (1% of total excursion)	< 2 ms (10% of total excursion) < 4 ms (1% of total excursion)
Up, No load	Standard	< 15 ms (10% of total excursion) < 30 ms (1% of total excursion)	< 15 ms (10% of total excursion) < 30 ms (1% of total excursion)
	With ATMU Options (New)	< 2 ms (10% of total excursion) < 4 ms (1% of total excursion)	< 2 ms (10% of total excursion) < 4 ms (1% of total excursion)
Down, Full load	Standard	< 20 ms (10% of total excursion) < 30 ms (1% of total excursion)	< 35 ms (10% of total excursion) < 30 ms (1% of total excursion)
	With ATMU Options (New)	< 7 ms (10% of total excursion) < 10 ms (1% of total excursion)	< 15 ms (10% of total excursion) < 20 ms (1% of total excursion)
Down, No load	Standard	< 20 ms (10% of total excursion) < 40 ms (1% of total excursion)	< 35 ms (10% of total excursion) < 40 ms (1% of total excursion)
	With ATMU Options (New)	< 7 ms (10% of total excursion) < 10 ms (1% of total excursion)	< 15 ms (10% of total excursion) < 20 ms (1% of total excursion)

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

Key Values

Safe, clean, and reliable power

- Low output ripple and noise
- 2-wire or 4-wire remote sense
- Detachable high current front binding post up to 80A
- Over-voltage, over-current, and over-temperature protection
- Built-in thermal sensor auto-protection mechanism

Convenient benchtop capabilities and intuitive interfaces

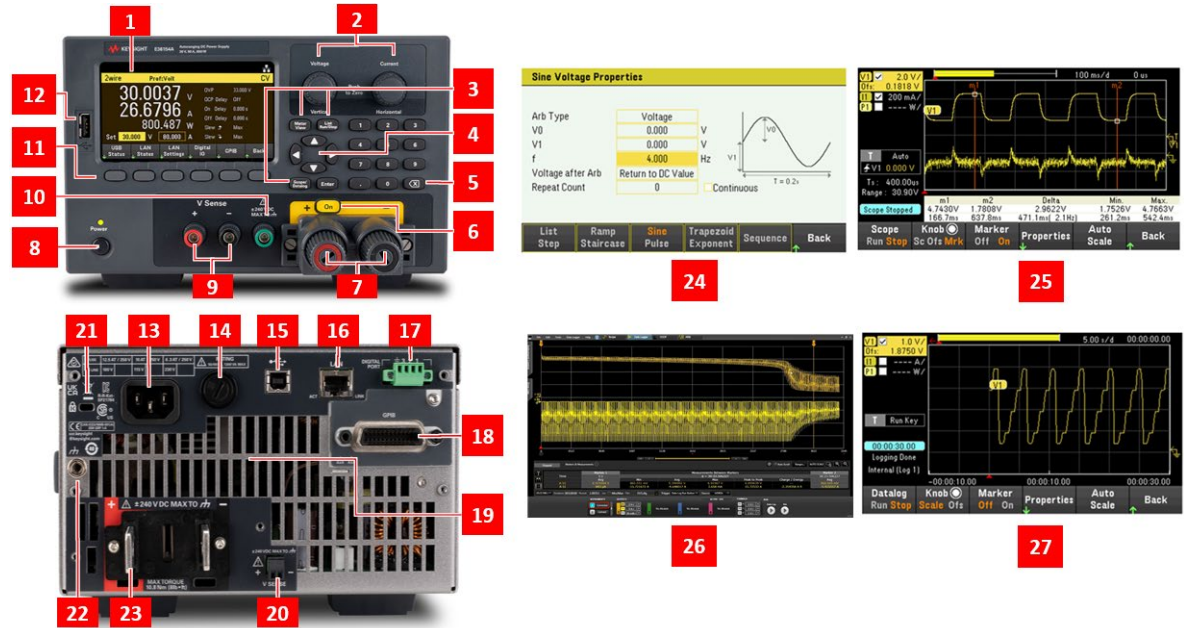
- Front output terminal, including sense and ground
- 4.3-inch LCD color display
- Individual knobs for voltage and current
- LAN/LXI, USB, and GPIB (requires E363GPBU upgrade option) interfaces

Advanced characterization

- Built-in voltage and current measurements
- Data logging
- Output sequencing and syncing with digital I/O
- LIST mode programming
- Low-range current measurement
- Adjustable voltage slew rate
- Scope View (requires E36150ADVU upgrade option)
- Arbitrary waveform generator (AWG) (requires E36150ADVU upgrade option)
- Peak power handling up to 2400W for at least 7ms
- Enhanced Programming Speed (requires E36150ATMU upgrade option) **New**
- ISO Preset Library (requires E36150ATMU upgrade option) **New**

Application software and automation

- BV0003B Pathwave BenchVue power supply
- BV9200B/BV9201B BenchVue Advanced Power Control and Analysis
- BV9200B/BV9201B Automotive Library Playback Simulation (requires E36150ATMU upgrade option) **New**



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| 1. 4.3-inch LCD color display | 10. Earth ground reference | 20. Sense terminals (rear) |
| 2. Voltage and current knobs | 11. Softkeys | 21. Kensington security slot |
| 3. Meter view, list run/stop, and scope/datalog keys | 12. USB port | 22. Earth ground reference (rear) |
| 4. Navigation keys | 13. AC inlet | 23. Output terminals (rear) |
| 5. Numeric keypad | 14. AC fuse-holder assembly | 24. Arbitrary waveform generator |
| 6. Output on/off key | 15. USB port (rear) | 25. Scope view |
| 7. Detachable binding post for output terminals | 16. LAN port | 26. BenchVue Advanced Power Control and Analysis |
| 8. On/standby key and LED indicator | 17. Digital I/O terminal port | 27. Datalogger |
| 9. Sense terminal | 18. GPIB port (Option E363GPBU only) | |
| | 19. Fan ventilation hole | |

Learn more at: www.keysight.com/find/E36150

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.