

## Product Fact Sheet

# Keysight E36300 Series DC Power Supplies

## Power your Next Insight

For more than 50 years, Keysight DC power supplies have been changing the way engineers prove their design, understand the issues, and ensure product quality. On the bench, the triple output E36300 series is ready for your application. With low output ripple/noise and accurate voltage/current measurement, you can test with confidence—and power your next insight.



Option	Description
GPB	GPIO module
RBP	Recessed binding posts
SEC	NISPOM and file security
UK6	Commercial calibration with test result data
BV0003B	Power supply control and automation

Performance specifications DC output Rating (0 to 40 °C)	E36311A 80 W			E36312A 80 W			E36313A 160 W		
	1	2	3	1	2	3	1	2	3
	0 to 6 V	0 to +25 V	0 to −25 V	0 to 6 V	0 to 25 V	0 to 25 V	0 to 6 V	0 to 25 V	0 to 25 V
	0 to 5 A	0 to 1 A	0 to 1 A	0 to 5 A	0 to 1 A	0 to 1 A	0 to 10 A	0 to 2 A	0 to 2 A
Output ripple and noise (20 Hz to 20 MHz)									
Normal mode voltage	< 350 μVrms/2mVpp			< 350 μVrms/2 mVpp			< 350 μVrms/ 2 mVpp	< 1 mVrms/ 5 mVpp	
Accuracy 12 months (25 °C + 5 °C)									
Programming accuracy ± (% of output + offset)									
Voltage	0.1% + 5 mV		0.05% + 20 mV		0.03% + 2 mV	0.03% + 5 mV		0.03% + 3 mV	0.03% + 5 mV
Current	0.1% + 10 mA		0.1% + 4 mA		0.04% + 3 mA	0.04% + 2 mA		0.05% + 4 mA	0.04% + 3 mA
Readback accuracy ± (% of output + offset)									
Voltage	0.1% + 5 mV		0.05% + 10 mV		0.04% + 2mV	0.04% + 5 mV		0.04% + 3mV	0.03% + 5 mV
Current	0.1% + 10 mA		0.1% + 4 mA		0.04% + 3mA	0.04% + 3 mA		0.05% + 5 mA	0.04% + 3 mA
Low range current, 20 mA	NA			0.25% + 80 μA			0.25% + 80 μA		
Typical characteristics									
Command processing time	< 10 ms								
Up/down programming settling time to within 1% of total excursion									
Up full load	11 msec		50 msec		11 msec	50 msec		15 msec	50 msec
Up no load	10 msec		20 msec		10 msec	20 msec		15 msec	25 msec
Down full load	13 msec		45 msec		13 msec	45 msec		13 msec	45 msec
Down no load	200 msec		400 msec		100 msec	150 msec		100 msec	150 msec
Features									
Low current measurement	Not applicable			Yes			Yes		
Auto series/parallel connections	Not applicable			Yes			Yes		
Data logging	Not applicable			Yes			Yes		
Output sequencing	Not applicable			Yes			Yes		
Output LIST	Not applicable			Yes			Yes		
Remote sensing	Not applicable			Yes			Yes		
Digital I/O port	Not applicable			Yes			Yes		
USB Host port for data logging/data storage	Not applicable			Yes			Yes		
Earth ground reference at rear panel	Not applicable			Yes			Yes		
Outputs at front and rear panel	No (Only front)			Yes			Yes		
I/O interfaces	USB			USB/LAN Opt-GPIB			USB/LAN Opt-GPIB		

[www.keysight.com/find/e36300](http://www.keysight.com/find/e36300)



Unlocking Measurement Insights

## Get More for Less

More confident to power your design

- Excellent programming/readback accuracy
- Low output ripple and noise
- Excellent Line/load regulation: 0.01%
- Fast transient response time: < 50  $\mu$ s
- Low range current measurement

More productive with intuitive and easy-to-use front panel

- 4.3-inch color LCD display
- Color-coded channels
- Individual knobs for voltage and current
- LAN (LXI), USB and GPIB
- Digital I/O port
- Individual on/off on all channels
- Electrically isolated channels
- Front and rear output terminals

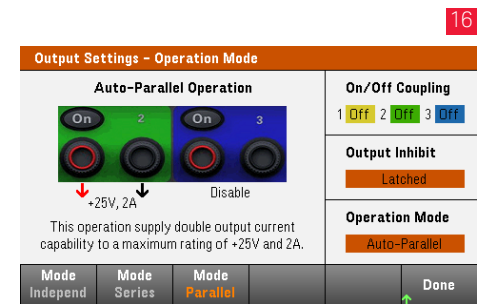
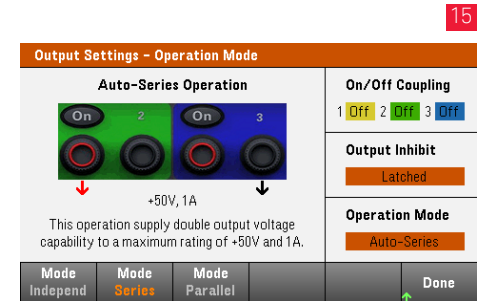
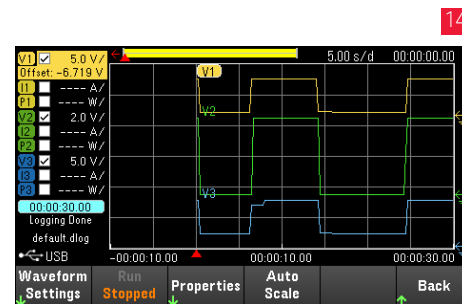
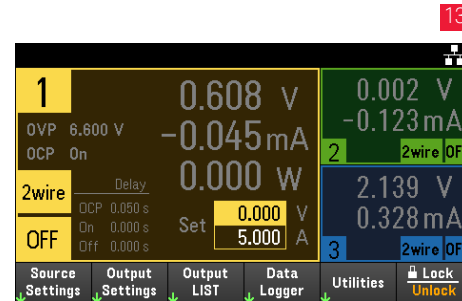
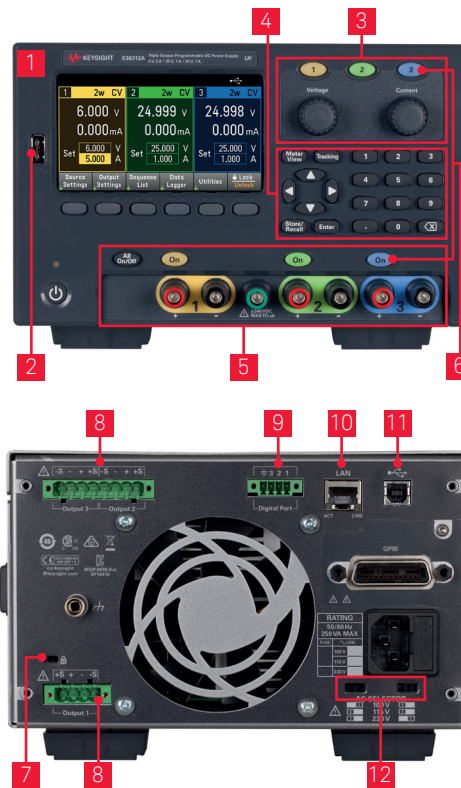
More features

- Data logging
- Output sequencing
- Output LIST
- Auto series/parallel connections
- 2-wire or 4-wire remote sense
- Over voltage, over current and over temp protection

1. Color display for fast, simple setup and monitoring
2. Front USB host port (E36312 and E36313A only)
3. Channel selection and voltage/current knobs
4. Properly layout function keys and keypads
5. 3 DC power outputs with individual on/off button

6. Output channels and controls are color-coded to display
7. Security lock slot
8. Rear output terminals (E36312 and E36313A only)
9. Digital I/O (E36312 and E36313A only)
10. LXI LAN and GPIB ports (E36312 and E36313A only)

11. USB communication port
12. Two switches to configure different input voltages
13. Meter view to show readback voltage, current and power
14. Data logger
15. Auto series mode
16. Auto parallel mode



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