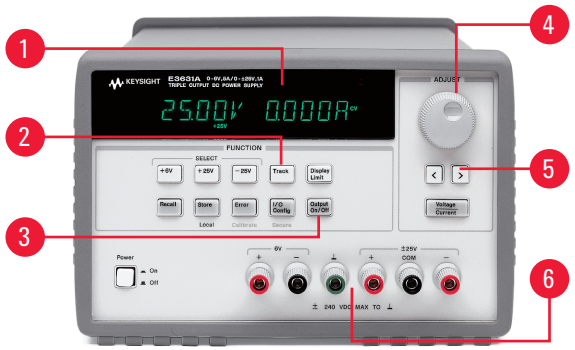
Product Fact Sheet

Keysight E3631A – E3634A Programmable DC Power Supplies

Reliable power, repeatable results

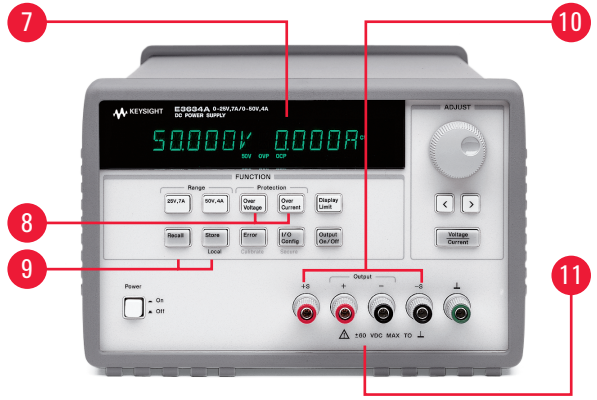
The Keysight Technologies, Inc. E3630A Series gives you get easy access to essential, everyday power sourcing capabilities that will advance your test today and tomorrow – reliably.

E3631A 80 W triple output power supply



1. Two 4-digit voltage and current readings accurately display actual or limit values simultaneously
2. Autotracking for 25 V outputs synchronization provides required symmetrical voltages for easier and faster setup
3. Output ON/OFF key allows you to enable or disable power outputs, providing extra protection to the device-under-test
4. Easy-to-use settings knob allows quick and easy voltage or current settings
5. Resolution key provides fine setting on voltage or current resolutions for better accuracy
6. Three independent outputs
   - (0 to +6 V/5 A and 0 to ± 25 V/1 A) minimize any interference between circuit-under-tests
   - Bias supply of ± 25 V allows you to set appropriate operating points

E3632A – E3634A 120 W to 200 W single output power supplies



7. Front-panel VFD (vacuum-fluorescent display) shows and monitors actual or limit values simultaneously
8. Delicate device-under-tests are provided with overvoltage and overcurrent protection
9. Three completed power supply setup states can be stored and recalled from internal non-volatile memory, reducing your setup time
10. Remote sensing function eliminates errors in voltage regulation due to voltage drop at load leads
11. Single output power supplies give you the flexibility to select from dual output ranges
    - E3632A (0 to 15 V/7 A or 0 to 30 V/4 A)
    - E3633A (0 to 8 V/20 A or 0 to 20 V/10 A)
    - E3634A (0 to 25 V/7 A or 0 to 50 V/4 A)

KEYSIGHT TECHNOLOGIES

E3631A specifications

Model	E3631A		
DC outputs			
Voltage	0 to +25 V	0 to +25 V	0 to +6 V
Current	0 to 1 A	0 to 1 A	0 to 5 A
Ripple and noise from 20 Hz to 20 MHz			
Normal-mode voltage	< 350 µVrms/2 mVpp	< 350 µVrms/2 mVpp	< 350 µVrms/2 mVpp
Normal-mode current	< 500 µArms	< 500 µArms	< 500 µArms
Common-mode current	< 1.5 µArms	< 1.5 µArms	< 1.5 µArms
Programming accuracy at 25 °C ± 5 °C			
Voltage	0.05% + 20 mV	0.05% + 20 mV	0.1% + 5 mV
Current	0.15% + 4 mA	0.15% + 4 mA	0.2% + 10 mA
Readback accuracy at 25 °C ± 5 °C			
Voltage	0.05% + 20 mV	0.05% + 20 mV	0.1% + 5 mV
Current	0.15% + 4 mA	0.15% + 4 mA	
Resolution			
Program / readback	1.5 mV/0.1 mA	1.5 mV/0.1 mA	0.5 mV/0.5 mA
Meter	10 mV/1 mA	10 mV/1 mA	1 mV/1 mA

E3632A, E3633A and E3634A specifications

Model	E3632A	E3633A	E3634A
DC outputs			
Voltage	0 to 15 V/0 to 30 V	0 to 8 V/0 to 20 V	0 to 25 V/0 to 50 V
Current	0 to 7 A/0 to 4 A	0 to 20 A/0 to 10 A	0 to 7 A/0 to 4 A
Ripple and noise from 20 Hz to 20 MHz			
Normal-mode voltage	< 350 µVrms/2 mVpp	< 350 µVrms/2 mVpp	< 500 µVrms/3 mVpp
Normal-mode current	< 2 mArms	< 2 mArms	< 2 mArms
Common-mode current	< 1.5 µArms	< 1.5 µArms	< 1.5 µArms
Programming accuracy at 25 °C ± 5 °C			
Voltage	0.05% + 10 mV	0.05% + 10 mV	0.05% + 10 mV
Current	0.2% + 10 mA	0.2% + 10 mA	0.2% + 10 mA
Readback accuracy at 25 °C ± 5 °C			
Voltage	0.05% + 5 mV	0.05% + 5 mV	0.05% + 5 mV
Current	0.15% + 5 mA	0.15% + 5 mA	0.15% + 5 mA
Resolution			
Program	1 mV/0.5 mA	1 mV/1 mA	3 mV/0.5 mA
Readback	0.5 mV/0.1mA	0.5 mV/1mA	1.5 mV/0.5 mA

Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.

Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.

Measurement Automation Quick and Easy

Whatever instrument you're programming – a power supply, power meter or data acquisition device, whether distributed or local – VEE graphical language software and GPIB, USB and instrument control products provide you the ease and flexibility to set up and automate the way you want for your application need. Make measurements quickly, easily, affordably – today.

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