

Uncompromising versatility.

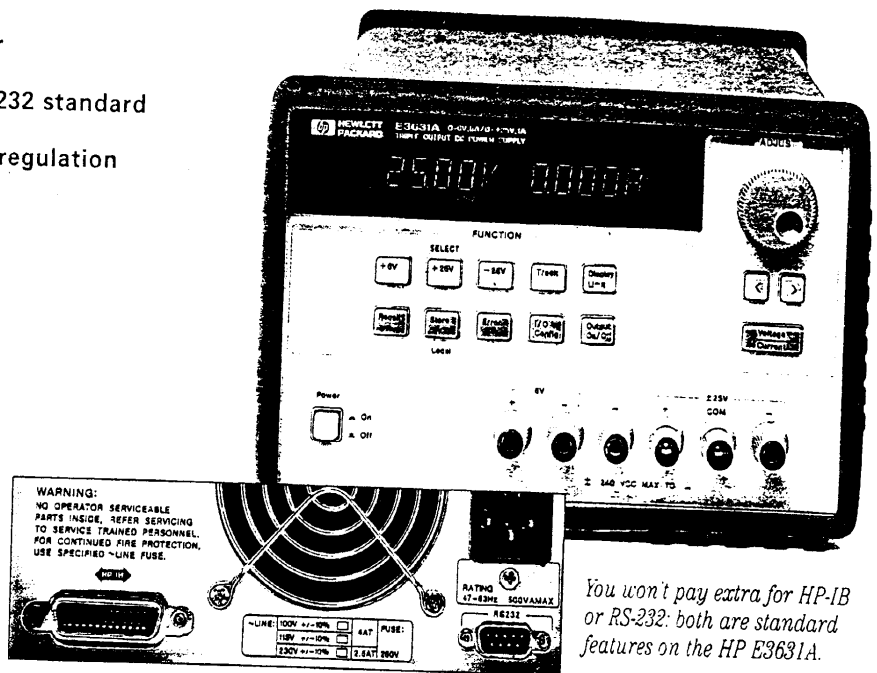
- 3 dc outputs with 80 W total power
- Programmable, with HP-IB and RS-232 standard
- Clean, stable output signals; linear regulation

Tired of people asking you to choose, then charging you for the privilege? Now you can have it all with the new HP E3631A triple output dc power supply—and pay a lot less than you'd pay for some of those other supplies.

Operate the HP E3631A as a stand-alone bench supply, setting exact output levels quickly with the dual voltage and current meters. The 6-volt supply is completely isolated from the two 25-volt supplies, which you can track together, operate independently or operate as a single 50-volt supply.

Connect the HP E3631A to a PC or other controller via the built-in HP-IB or RS-232 port, and you'll have a versatile power source for automated test.

No matter how you use it, count on the HP E3631A to power your projects for a long time to come—we back it up with an industry-leading three-year warranty.



You won't pay extra for HP-IB or RS-232: both are standard features on the HP E3631A.

HP E3631A Triple Output dc Power Supply	1	2	3
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
Load and line regulation			
Voltage	<0.01% + 2 mV		
Current	<0.01% + 250 μ A		
Ripple and noise			
Normal mode voltage	<350 μ Vrms/2 mVp-p		
Normal mode current	<500 μ Arms	<500 μ Arms	<2 mArms
Common mode current	<1.5 μ Arms		
Programming accuracy			
Voltage	0.05% + 20 mV		
Current	0.15% + 4 mA	0.1% + 5 mV 0.2% + 10 mA	
Readback/meter accuracy			
Voltage	0.05% + 10 mV		
Current	0.15% + 4 mA	0.1% + 5 mV 0.2% + 10 mA	
Resolution			
Program/readback	1.5 mV/0.1 mA		
Meter	10 mV/1 mA	0.5 mV/0.5 mA 1 mV/1 mA	
Transient response	50 μ s for output to recover to within 15 mV following a change in output current from full load to half load or vice versa		
Supplemental characteristics			
Command processing time	<100 ms		
Voltage programming speed to within 0.1% of final value	Full load	No load	Full load No load
Up	50 ms	20 ms	11 ms 10 ms
Down	45 ms	400 ms	13 ms 200 ms
Isolation	\pm 240 Vdc		
Size	132 mm H x 213 mm W x 360 mm D (5.2 x 8.4 x 14.2 in)		
Weight	8.2 kg (18 lbs)		
Warranty	3 years		

HP E3631A/32A/33A/34A Programmable DC Power Supply Specifications

Model Number	E3631A			E3632A	E3633A	E3634A	
	1	2	3				
DC Output Rating (0°C to 40°C)	0 to +6V, 0 to 5A	0 to +25V, 0 to 1A	0 to -25V, 0 to 1A	0 to +15V/7A or 0 to +30V/4A	0 to +8V/20A or 0 to +20V/10A	0 to +25V/7A or 0 to +50V/4A	
Load Regulation ¹ +(% of output + offset)				< 0.01% + 2mV < 0.01% + 250uA			
Line Regulation +(% of output + offset)				< 0.01% + 2mV < 0.01% + 250uA			
Ripple and Noise (20Hz to 20MHz)							
Normal Mode Voltage	< 350uVrms / 2mVpp				< 350uVrms / 3mVpp	< 500uVrms / 3mVpp	
Normal Mode Current	< 2mA _{rms}	< 500uA _{rms}		< 2mA _{rms}			
Common Mode Current	< 1.5uA _{rms}						
Accuracy 12Mos (25 °C + 5 °C), ± (% output + offset)							
Programming							
Voltage	0.1% + 5mV	0.05% + 20mV		0.05% + 10mV			
Current	0.2% + 10mA	0.15% + 4mA		0.2% + 10mA			
Readback							
Voltage	0.1% + 5mV	0.05% + 10mV		0.05% + 5mV			
Current	0.2% + 10mA	0.15% + 4mA		0.15% + 5mA			
Resolution							
Program	0.5mV / 0.5mA	1.5mV / 0.1mA		1mV / 0.5mA	1mV / 1mA	3mV / 0.5mA	
Readback	0.5mV / 0.5mA	1.5mV / 0.1mA		0.5mV / 0.1mA	0.5mV / 1mA	1.5mV / 0.5mA	
Meter	1mV / 1mA	10mV / 1mA		1mV / 1mA	1mV / 1mA (<10A), 10mA (≥10A)		
Transient Response	Less than 50usec for output to recover to within 15mV following a change in output current from full load to half load or vice versa.						
Command Processing Time ²	< 100msec						
OVP/OCP Accuracy , ± (% output + offset)	N / A			0.5% + 0.5V / 0.5% + 0.5A			
Activation time	< 1.5msec, OVP > 3V / < 10msec, OVP < 3V and OCP						
Temperature Coefficient per °C ± (% output + offset)							
Voltage	0.01% + 2mV	0.01% + 3mV					
Current	0.02% + 3mA	0.02% + 0.5mA		0.02% + 3mA			
Stability , constant output & temperature ± (% of output + offset), 8 hrs							
Voltage	0.03% + 1mV	0.02% + 2mV		0.02% + 1mA			
Current	0.1% + 3mA	0.05% + 1mA		0.1% + 1mA			
Remote Sense Max voltage in each load lead				1V	0.7V		
Voltage Programming Speed , to within 1% of total excursion							
Up	Full Load	11msec	50msec		50msec	95msec	80msec
	No Load	10msec	45msec		20msec	45msec	100msec
Down	Full Load	13msec	20msec		45msec	30msec	30msec
	No Load	200msec	400msec		400msec	450msec	450msec
AC Input (47Hz - 63Hz)	100Vac ± 10% (Opt OE9) / 115Vac ± 10% (Std) / 230Vac ± 10% (Opt OE3)						
Dimension/Net Weight	213mmW x 133mmH x 348mmD (8.4 x 5.2 x 13.7 in) / 8.2kg (18 lbs)			213mmW x 133mmH x 348mmD (8.4 x 5.2 x 13.7 in) / 9.5kg (21 lbs)			
Warranty	3 years						
Product Regulation	Designed to comply with UL 1244, IEC1010-1; Certified with CSA 22.2 no. 1010.1, meets requirements for CE regulation						

Note: 1. With sense terminal connected for E3632A/33A/34A.

2. Maximum time for output to change after receipt of commands.