

## KEYSIGHT TECHNOLOGIES (AGILENT HP)

# E3632A

The Keysight (Agilent/HP) E3632A is a single-output, dual-range programmable DC power supply in the E3630 Series. It provides low ripple and noise performance with built-in voltage/current measurement and remote control via GPIB or RS-232 using SCPI commands.

## SPECIFICATIONS

### General

|            |                                                         |
|------------|---------------------------------------------------------|
| Interfaces | GPIB (IEEE-488.2), RS-232                               |
| Display    | Front-panel dual digital meters for voltage and current |

### Physical

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Power Supply          | 100/120/220/240 Vac $\pm 10\%$ , 47–63 Hz; 250 VA max |
| Operating Temperature | 0 °C to 40 °C °C                                      |

### Output Specifications

|                                                    |                                                         |
|----------------------------------------------------|---------------------------------------------------------|
| Output channels                                    | 1                                                       |
| Output ranges                                      | Range 1: 0–15 V, 7 A; Range 2: 0–30 V, 4 A (selectable) |
| Maximum output voltage                             | 30 V                                                    |
| Maximum output current                             | 7 A (range dependent)                                   |
| Maximum output power                               | 120 W (range dependent)                                 |
| Regulation modes                                   | Constant Voltage (CV) / Constant Current (CC)           |
| Autoranging output                                 | No (discrete dual range)                                |
| Output enable/disable                              | Front panel and remote command                          |
| Ripple & noise (20 Hz–20 MHz), normal-mode voltage | <350 $\mu$ Vrms / <2 mVpp                               |
| Ripple & noise (20 Hz–20 MHz), normal-mode current | <2 mA rms                                               |
| Common-mode current (20 Hz–20 MHz)                 | <1.5 $\mu$ A rms                                        |
| Remote sense terminals                             | Yes (separate sense connections)                        |

### Regulation & Accuracy

|                                                 |               |
|-------------------------------------------------|---------------|
| Voltage programming accuracy (25 °C $\pm 5$ °C) | 0.05% + 10 mV |
| Current programming accuracy (25 °C $\pm 5$ °C) | 0.2% + 10 mA  |
| Voltage readback accuracy (25 °C $\pm 5$ °C)    | 0.05% + 5 mV  |

**Programming & Control Performance**

|                       |                              |
|-----------------------|------------------------------|
| SCPI command set      | Supported                    |
| IEEE-488.2 compliance | Yes                          |
| Built-in measurements | Voltage and current readback |

**Protection Features**

|                              |                      |
|------------------------------|----------------------|
| Overvoltage protection (OVP) | Present (settable)   |
| Short-circuit protection     | Inherent via CC mode |

**User Interface & Display**

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Display type         | Dual digital readouts for V and A                  |
| Front panel controls | Keys and rotary adjustment with output on/off      |
| Status indicators    | CV/CC annunciation                                 |
| Local/remote control | Selectable via front panel; remote via GPIB/RS-232 |

**Connectivity & Interfaces**

|                                 |                                    |
|---------------------------------|------------------------------------|
| GPIB interface                  | IEEE-488 / 488.2                   |
| RS-232 interface                | Serial (remote programming)        |
| Output terminals                | Front-panel binding posts          |
| Remote sense terminals location | Front panel (separate sense posts) |

**Software & Integration**

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Driver support        | IVI/VISA drivers available                                 |
| Command compatibility | SCPI language compatible with Keysight/Agilent instruments |

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