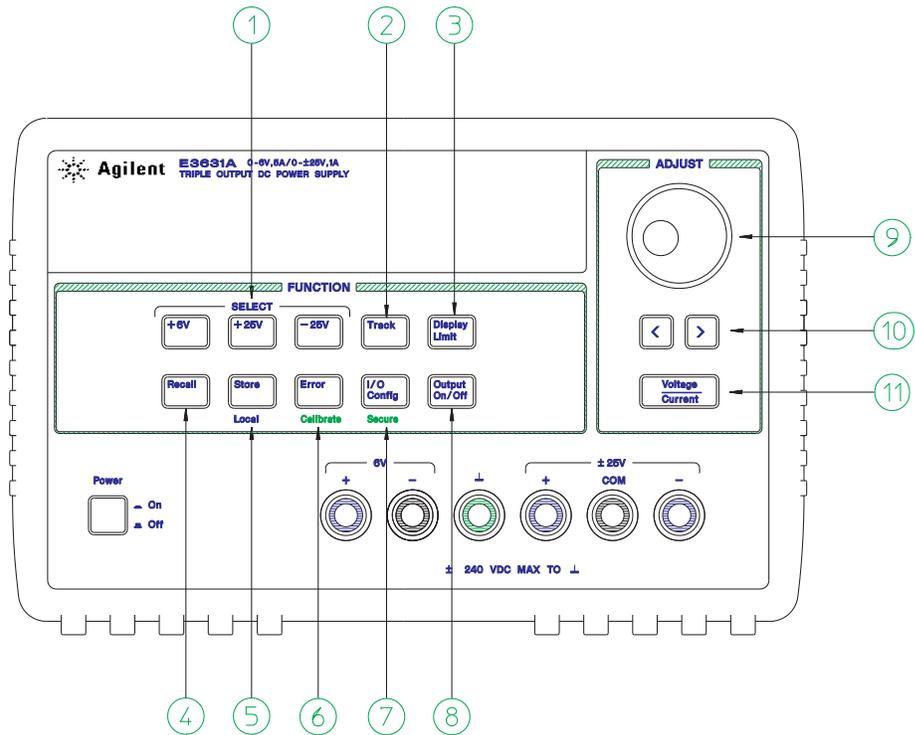


## The Front Panel at a Glance



- |                                   |   |
|-----------------------------------|---|
| 1 Meter and adjust selection keys | 7 I/O Configuration / Secure key        |
| 2 Tracking enable/disable key     | 8 Output On/Off key                     |
| 3 Display limit key               | 9 Control knob                          |
| 4 Recall operating state key      | 10 Resolution selection keys            |
| 5 Store operating state/Local key | 11 Voltage/current adjust selection key |
| 6 Error/Calibrate key             |   |

- 1 Meter and adjust selection keys** Select the output voltage and current of any one supply (+6V, +25V, or -25V output) to be monitored on the display and allow knob adjustment of that supply.
- 2 Tracking enable / disable key** Enables / disables the track mode of  $\pm 25V$  supplies.
- 3 Display limit key** Shows the voltage and current limit values on the display and allows knob adjustment for setting limit values.
- 4 Recall operating state key** Recalls a previously stored operating state from location "1", "2", or "3".
- 5 Store operating state / Local key**<sup>1</sup> Stores an operating state in location "1", "2", or "3" / or returns the power supply to local mode from remote interface mode.
- 6 Error / Calibrate key**<sup>2</sup> Displays error codes generated during operations, self-test and calibration / or enables calibration mode (the power supply must be *unsecured* before performing calibration).
- 7 I/O Configuration / Secure key**<sup>3</sup> Configures the power supply for remote interfaces / or secure and unsecure the power supply for calibration.
- 8 Output On/Off key** Enables or disables all three power supply outputs. This key toggles between two states.
- 9 Control knob** Increases or decreases the value of the blinking digit by turning clockwise or counter clockwise.
- 10 Resolution selection keys** Move the flashing digit to the right or left.
- 11 Voltage/current adjust selection key** Selects the knob function to voltage control or current control.

<sup>1</sup>The key can be used as the "Local" key when the power supply is in the remote interface mode.

<sup>2</sup>You can enable the "calibration mode" by holding down this key when you turn on the power supply.

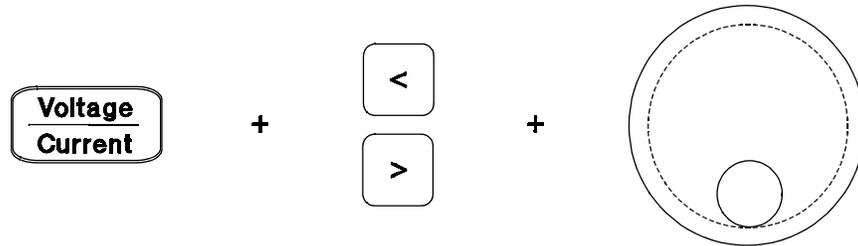
<sup>3</sup>You can use it as the "Secure" or "Unsecure" key when the power supply is in the calibration mode.

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## Front-Panel Voltage and Current Limit Settings

You can set the voltage and current limit values from the front panel using the following method.

Use the voltage/current adjust selection key, the resolution selection keys, and the control knob to change the monitoring or limiting value of voltage or current.



- 1 Press the `Display Limit` key after turning on the power supply.
- 2 Set the knob to the voltage control mode or current control mode using the voltage/current adjust selection key.
- 3 Move the blinking digit to the appropriate position using the resolution selection keys.
- 4 Change the blinking digit to the desired value using the control knob.
- 5 Press the `Output On/Off` key to enable the output. After about 5 seconds, the display will go to the output monitor mode automatically to display the voltage and current at the output.

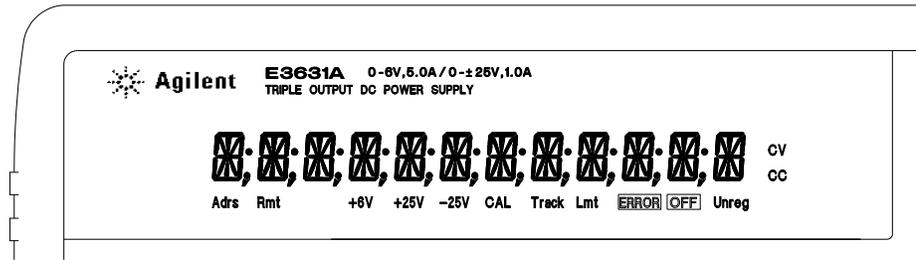
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### Note

*All front panel keys and controls can be disabled with remote interface commands. The Keysight E3631A must be in "Local" mode for the front panel keys and controls to function.*

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## Display Annunciators



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<b>Adrs</b>	Power supply is addressed to listen or talk over a remote interface.
<b>Rmt</b>	Power supply is in remote interface mode.
<b>+6V</b>	Displays the output voltage and current for +6V supply. Knob is active for +6V supply.
<b>+25V</b>	Displays the output voltage and current for +25V supply. Knob is active for +25V supply.
<b>-25V</b>	Displays the output voltage and current for -25V supply. Knob is active for -25V supply.
<b>CAL</b>	power supply is in calibration mode.
<b>Track</b>	The outputs of +25V and -25V supplies are in track mode.
<b>Limit</b>	The display shows the voltage and current limit value of a selected supply.
<b>ERROR</b>	Hardware or remote interface command errors are detected and also the error bit has not been cleared.
<b>OFF</b>	The three outputs of the power supply are disabled.
<b>Unreg</b>	The displayed output is unregulated (output is neither CV nor CC).
<b>CV</b>	The displayed output is in constant-voltage mode.
<b>CC</b>	The displayed output is in constant-current mode.

To review the display annunciators, hold down **Display Limit** key as you turn on the power supply.