

## Power Supplies

### PS281, PS282, PS283

These products are no longer carried in our catalog.



*PS283*

#### Features

##### PS283

- One Fixed 5 V, 3 A Supply
- Two Variable Outputs, 0 to 30 V, 1 A
- Variable Current Limiting
- Selectable Independent Tracking Mode
- Dual Tracking, Variable: 0 to 30 V, 0 to 30 V, 1.0 A

##### PS281/282

- 90 W, Single Output, 3-1/2 digit Display
- 0 to 30 V, 0 to 3 A (PS281)
- 0 to 18 V, 0 to 5 A (PS282)
- Variable Current Limiting
- Overload and Over-voltage Protection

#### Applications

- Training
- Manufacturing Production Test
- Field Repair
- Bench Calibration and Repair
- Product Design

For additional information or to order, contact your local Tektronix representative.

The PS280 and PS283 Laboratory DC Power Supplies are multifunction benchtop or portable instruments for a wide variety of test and experimental uses. The PS281/282 DC Power Supplies meet the requirements of laboratory, classroom and production environments.

#### Characteristics

PS281

PS282

PS283

<b>Output Voltage</b> Two Variable (CC) One Fixed	0 to 30 VDC	0 to 18 VDC	0 to 30 VDC 5.0 V
<b>Output Current</b> Two Variable (CC) One Fixed (foldback limited)	0 to 3.0 A	0 to 5.0 A	0 to 1.0 A 3.0 A max
<b>Line Regulation</b> Two Variable (CV) Two Variable (CC) One Fixed (CV)	$\leq 0.01\% + 3 \text{ mV}$	$\leq 0.01\% + 3 \text{ mV}$	0.01% + 5 mV 0.2% + 3 mA $\leq 5 \text{ mV}$
<b>Load Regulation</b> Two Variable (CV) Single Series Tracking Supply (CV) Two Variable (CC) One Fixed (CV)	$\leq 0.01\% + 3 \text{ mV}$	$\leq 0.01\% + 3 \text{ mV}$ ( $\leq 3 \text{ A}$ ) $\leq 30.01\% + 5 \text{ mV}$ ( $> 3 \text{ A}$ )	$\leq 0.01\% + 3 \text{ mV}$  $\leq 300 \text{ mV}$ , 0 to 60 V 0.2% + 3 mA $\leq 10 \text{ mV}$
<b>Ripple/Noise</b>  Two Variable (CV) Two Variable (CC) One Fixed	$\leq 0.5 \text{ mV RMS}$ , 5 Hz to 1 MHz	$\leq 0.5 \text{ mV RMS}$ , 5 Hz to 1 MHz ( $\leq 3 \text{ A}$ ) $\leq 1.0 \text{ mV RMS}$ , 5 Hz to 1 MHz ( $> 3 \text{ A}$ )	$\leq 1 \text{ mV RMS}$ , 5 Hz to 1 MHz $\leq 3 \text{ mA}$ $\leq 2 \text{ mV RMS}$
<b>Output in Independent Mode</b> (CV) (CC)			Two variable 0-30 V 1.0 A
<b>Output in Parallel Mode</b> Tracking Error Series Mode	$< \pm 500 \text{ mV}$	$< \pm 500 \text{ mV}$	One 2.0 A max 0 to 30 V $\leq 0.5\% + 10 \text{ mV}$ One 0 $\pm 30 \text{ V}$ , 1.0 A max or one 60 V, 1 A
<b>Displays</b> Voltage Indicator  Current Indicator			Two 3-1/2 digit LED (switchable) 0 to 30 VDC digits) $\pm 0.5\%$ of rdg + 2 digits) 0 to 2 A DC $\pm 0.5\%$ of rdg + 2 digits)
<b>Overload Indicator</b> Readout Accuracy Overload Indicator	One 3-1/2 digit LED $\pm 0.5\%$ of reading + 2 digits) Yes	One 3-1/2 digit LED $\pm 0.5\%$ of reading + 2 digits) Yes	Yes
<b>Insulation</b> Chassis to Terminal Chassis to Power Cord	$\geq 20 \text{ Megohm @ 500 VDC}$ $\geq 30 \text{ Megohm @ 500 VDC}$	$\geq 20 \text{ Megohm @ 500 VDC}$ $\geq 30 \text{ Megohm @ 500 VDC}$	$\geq 20 \text{ Megohm @ 500 VDC}$ $\geq 30 \text{ Megohm @ 500 VDC}$
<b>Safety Certification</b>	ETL, T-MARK, CSA	ETL, T-MARK, CSA	ETL, T-MARK, CSA

\*(CC): When operated in Constant Current mode. (CV): When operated in Constant Voltage mode.