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

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