

## Appendix A: Specifications

Table 1: Physical Characteristics

Dimension	Measurement
Width	255 mm (10.0 in)
Height	145 mm (5.7 in)
Depth	335 mm (13.2 in)
Weight	11.5 kg (25.4 lb) PS280 9.0 kg (19.9 lb) PS283

Table 2: Environmental Characteristics

Characteristic	Temperature	Relative Humidity
Storage	-10° C to +70° C	70%
Operating	0° C to 40° C	80%

Table 3: Operational Characteristics

Characteristic	Measurement
Outputs	Two 0 to 30 VDC, one 5 VDC
Voltage (5 V)	5.0 +0.25 VDC at 3.0 A maximum foldback current limited
Voltage (0–30 V)	0–30 constant VDC at 2.0 A constant, maximum (PS280) or 1.0 A constant, maximum (PS283)
Line Regulation (5 V)	≤ 5 mV
Line Regulation (CV)	≤ 0.01% +3 mV PS280 ≤ 0.01% + 5 mV PS283

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Table 3: Operational Characteristics (Cont.)

Characteristic	Measurement
Line Regulation (CC)	$\leq 0.2\% + 3 \text{ mV}$
Load Regulation (5 V)	$\leq 0.2\%$
Load Regulation (CV)	$\leq 0.01\% + 3 \text{ mV}$ (rating current $\leq 3 \text{ A}$ ) $\leq 0.01\% + 5 \text{ mV}$ (rating current $> 3 \text{ A}$ ) $\leq 300 \text{ mV}$ (0–60 V single series tracking supply)
Load Regulation (CC)	$\leq 0.2\% + 3 \text{ mV}$
Ripple/Noise (5 V)	$\leq 2 \text{ mV rms}$
Ripple/Noise (CV)	$\leq 1 \text{ mV rms}$ , 5 Hz–1 MHz
Ripple (CC)	$\leq 3 \text{ mA rms}$
Temperature Coefficient (CV)	$\leq 300 \text{ ppm}^\circ\text{C}$
Recovery Time (CV)	$\leq 100 \mu\text{s}$ (time to recover after a 50% load change with 0.5 A minimum)
Tracking Error (Slave)	$\leq 0.5\% + 10 \text{ mV}$ of the master supply
Indicator	Two 3 1/2 digit 0.5 in LED panel display meter
Meter Indicators	0–30 VDC + (0.5% of reading + 2 digits) 0–2 A + (0.5% of reading + 2 digits)
Insulation (Chassis-to-Terminal)	$\geq 20 \text{ M}\Omega$ at DC 500 V
Insulation (Chassis-to-AC Cord)	$\geq 30 \text{ M}\Omega$ at DC 500 V

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Table 4: Electrical Characteristics

Characteristic	Measurement
Line voltage	90 to 110 108 to 132 198 to 242 216 to 250, all VAC at 50–60 Hz
Power consumption	386 VA, 300 W maximum (PS280) 265 VA, 200 W maximum (PS283)

Table 5: Certifications and Compliances

EC Declaration of Conformity – EMC	<p>Meets intent of Directive 89/336/EEC for Electromagnetic Compatibility. Compliance was demonstrated to the following specifications as listed in the Official Journal of the European Communities:</p> <p>EN 55011                      Class B Radiated and Conducted Emissions</p> <p>EN 50081-1 Emissions:                EN 60555-2      AC Power Line Harmonic Emissions</p> <p>EN 50082-1 Immunity:                IEC 801-2      Electrostatic Discharge Immunity                IEC 801-3      RF Electromagnetic Field Immunity                IEC 801-4      Electrical Fast Transient/Burst Immunity                IEC 801-5      Power Line Surge Immunity</p>
EC Declaration of Conformity – Low Voltage	<p>Compliance was demonstrated to the following specification as listed in the Official Journal of the European Communities:</p> <p>Low Voltage Directive 73/23/EEC, amended by 93/68/EEC.</p> <p>HD401 S1                      Safety Requirements for Electronic Measuring Apparatus.</p>