

XPL Series

30 to 125W Laboratory DC Power Supply



XPL 56-1
Single Output



XPL 30-2T
Triple Output

High Performance Low Cost Bench DC Power Supply

The Xantrex XPL series has been designed to meet the need for compact power supply at a reasonable price. The XPL series provides 30 to 125 watts of programmable linear DC power. The XPL is a compact, high performance low cost power supply suited for benchtop applications.

The XPL Series uses linear regulation for high performance. The XPL Series features excellent line and load regulation with low noise and good transient response. The XPL Series is available in a single, dual and triple output for benchtop use.

The XPL dual output model has two independent and isolated outputs each with a 0 to 30V, 0 to 2A capability and its own on-off switch. The outputs can be wired in either series or parallel to provide voltages up to 60 volts or currents up to 4 amps. All outputs are intrinsically short circuit proof, and are protected against external voltages and reverse currents. The XPL triple output model has the same features as the dual output model with an additional switchable fixed output of 3.3V and 5V.

Product Features

- ▶ Low noise
- ▶ Excellent line/load regulation
- ▶ Coarse and fine voltage controls
- ▶ Constant voltage or constant current operation with automatic crossover and mode indication
- ▶ Individual on/off switch per output (not including fixed output)
- ▶ Switchable 3.3V/5V output on triple output model

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Electrical Specifications

Models	18-3	30-1	30-2	30-2D	30-2T	56-1
Output Ratings:						
Output Voltage	0-18 V	0-30 V	0-30 V	0-30 V	0-30 V	0-56 V
Output Current	0-3.3 A	0-1 A	0-2 A	0-2 A	0-2 A	0-1.1 A
Outputs	1	1	1	2	3	1
Output Power	60 W	30 W	60 W	120 W	125 W	60 W
Operating Mode	Constant voltage or constant current with automatic cross-over and indication					
Voltage Setting	By coarse and fine controls					
Current Setting	By single logarithmic control					
Line Regulation	< 0.01% of max. output for a 10% line voltage change					
Load Regulation	<0.01% of max. output for a 90% load change					
Output Impedance	Typically <5mΩ in constant voltage mode. Typically > 50kΩ in constant current mode					
Ripple and Noise (20 MHz)	Typically <1mV rms (CV mode)					
Transient Response	<20μs to within 50mV of set level for 90% load change					
Temperature Coefficient	Typically <100ppm/°C					
Output Protection	Outputs will withstand forward voltages of up to 20V above the rated output voltage. Reverse protection by diode clamp for current up to 3 A					
Status Indication	Output ON lamps. Constant current mode lamps					
Output Switch	Electronic. Preset voltage and current displayed when output is off					
Output Terminals	4mm terminals on 19mm (0.75") pitch					
Meter Resolutions	100 mV, 10 mA					
Meter Accuracy:						
Voltage	0.3% ±1 digit					
Current	0.6% ±1 digit					

Logic Output (XPL 30-2T)

Voltage	5V or 3.3V, selectable by front panel switch
Voltage Accuracy	±3%
Current Limit	1A minimum
Load Regulation	<0.5% for a 90% load change
Line Regulation	<0.1% for a 10% line voltage change
Ripple and Noise (20MHz bandwidth)	Typically <1mV rms
Output Protection	Output will withstand up to 16V forward voltage. Diode lamp reverse protection for currents to 3A.
Output Terminals	4mm terminals on 19mm (0.75") pitch
Status Indication	Current limit lamp

General Specifications

AC Input	115 V or 230 VAC ±10% (Adjustable internally, option HV for factory set 230 VAC input) Installation Category II
Power Consumption	85 VA (XPL 30-1), 160 VA (XPL 30-2, XPL 18-3, XPL 56-1), 320 VA (XPL 30-2D, XPL 30-2T)
Operating Range	5 °C to 40 °C, 20% to 80% RH
Storage Range	- 40 °C to + 70 °C
Environmental	Indoor use at altitudes to 2000m, Pollution Degree 2
Cooling	Silent fan-less convection cooling
Safety	Complies with EN61010-1
EMC	Complies with EN61326
Dimensions (HxWxD)	6.3 x 5.5 x 11.6"/160 x 140 x 295 mm (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1), 6.3 x 10.2 x 11.6"/160 x 260 x 295 mm (XPL 30-2D, XPL 30-2T)
Weight	7.5 lb/3.4 kg (XPL 30-1), 9.7 lb/4.4 kg (XPL30-2, XPL 18-3 XPL 56-1), 16.5 lb/7.5 kg (XPL 30-2D, XPL 30-2T)
Warranty	3 years
Approvals	CE-marked units meet: EN61010-1 and EN61326

Note: Specifications are subject to change without notice.