

**350 W Laboratory DC Power Supply**



**Dual Output DC Power Supply with Powerflex**

The Xantrex XPF is a new type of bench power supply designed to meet the need for flexibility in the choice of voltage and current. Typically, the maximum voltage and maximum current are not required simultaneously. The PowerFlex design enables higher currents to be generated at lower voltages within an overall power limit envelope.

The XPF is a dual output programmable DC power supply with two completely independent and isolated 175W outputs. If required, the outputs can be wired in series or parallel to achieve voltages up to 70V or current up to 20 A. Each output can provide 35 Volts at a maximum current of 5 Amps. As the voltage setting is reduced the output current capability increases up to a maximum of 10 Amps. This is achieved by using the latest switch-mode technology.

**Product Features**

- ▶ Power Factor Correction (PFC)
- ▶ Individual on/off switch per output
- ▶ Dual isolated outputs
- ▶ PowerFlex design gives variable voltage/current combinations
- ▶ Coarse and fine voltage controls
- ▶ Simultaneous display of output voltage and current for each output

**Protection Features**

- ▶ Over voltage protection per output
- ▶ Switchable remote or local sense

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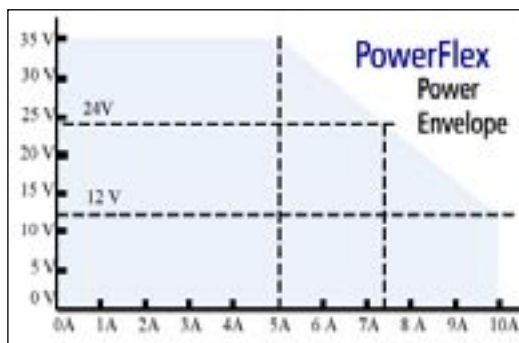
## 350 W Laboratory DC Power Supply

### Electrical Specifications

<b>Voltage Range</b>	0 V - 35 V
<b>Current Range</b>	0 A - 10 A
<b>Power Range</b>	Up to 175 W per output- see PowerFlex power envelope graph
<b>OVP range</b>	10% -110% of maximum output voltage
<b>Voltage Setting</b>	By coarse and fine controls
<b>Current Setting</b>	By single logarithmic control
<b>Line and Load regulation</b>	<0.01% of maximum output for a 10% line change; <0.05% of maximum output for a 90% load change.
<b>Output Impedance</b>	Typically <5mΩ in constant voltage mode. Typically >5kΩ in constant current mode (voltage limit at max.)
<b>Ripple and noise</b>	5 mV rms max, typically 2 mV rms, <20 mV pk-pk, (20 MHz bandwidth) both outputs fully loaded (7A @ 25V), CV mode.
<b>Transient Response</b>	<2ms to within 100mV of set level for 90% load change
<b>Output Protection</b>	Forward protection by OVP trip; maximum voltage that should be applied to the terminals is 50V. Reverse protection by diode clamp for reverse currents up to 3A
<b>Temperature coefficient</b>	Typically <100ppm/°C
<b>Status Indication</b>	LED indication of Output On, CV, CI and Power Limit. Message on display for over-voltage trip
<b>Output Switch</b>	Push-push switch operating electronic power control. Preset voltage and current are displayed when the output is off
<b>Output Terminals</b>	4mm terminal on 19mm (0.75") pitch. 15A max. rating
<b>Sensing</b>	Remote sensing via a front panel terminal block or local sensing (at output terminals). Selection by slide switch
<b>Meter Resolution</b>	10mV, 10mA
<b>Meter accuracy:</b>	
<b>Voltage</b>	0.2% ± 1 digit
<b>Current</b>	0.5% ± 1 digit

### Power Envelope (each output)

The maximum current at any voltage settings is limited by the power envelope which is set to give 5A at 35V rising to 10A at 12V under all ac supply conditions (both outputs loaded). At lower output voltages the power is restricted by the 10 amps current maximum.



### General Specifications

<b>AC Input</b>	110V-120V AC or 220V-240V AC ± 10%, 50/60 Hz. Installation Category II.
<b>Power Consumption</b>	600 VA max.
<b>Operating Temperature Range</b>	5 °C to 40 °C, 20 to 80% RH
<b>Storage Range</b>	-40 °C to + 70 °C
<b>Environmental</b>	Indoor use at altitudes up to 2000m, Pollution Degree 2.
<b>Safety</b>	Complies with EN61010-1
<b>EMC</b>	Complies with EN61326
<b>Dimensions (HxWxD)</b>	5.1 x 8.3 x 14.8" (130 x 210 x 375 mm)
<b>Weight</b>	11 lb. (5kg)
<b>Warranty</b>	3 years
<b>Regulatory approvals</b>	CE

Note: Specifications are subject to change without notice.