

## XPF Series

### 350 to 840 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. This is achieved by using the latest switch-mode technology.

The XPF Series are dual output DC power supplies with two completely independent and isolated outputs. If required, the outputs can be wired in series or parallel to achieve up to double the maximum voltage or double the maximum current.

#### 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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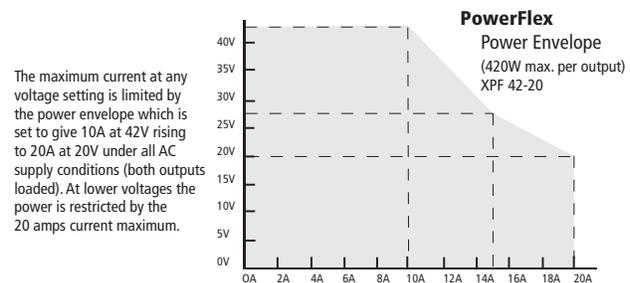
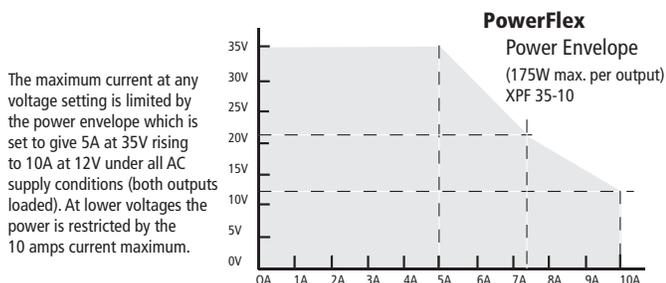
# XPF Series

## 350 to 840 W Laboratory DC Power Supply

### Electrical Specifications

Models:	35-10	42-20
<b>Output Ratings</b>		
Output Voltage	0V - 35 V	0V - 42 V
Output Current	0 - 10 A	0 - 20 A
Outputs	2	2
Output Power	up to 175 W per output	up to 420 W per output (See XPF 35-10 and XPF 42-20 PowerFlex power envelope graph)
OVP Range	10% -110% of maximum output voltage	
Voltage Setting	By coarse and fine controls	
Current Setting	By single logarithmic control	
Output Impedance	Typically <5mΩ in constant voltage mode. Typically >5kΩ in constant current mode (voltage limit at max.)	
Line Regulation	<0.01% of max. output for a 10% line voltage change	
Load Regulation	<0.05% of max. output (XPF 35-10) and <0.01% of max. output (XPF 42-20) for a 90% load change.	
Ripple and Noise	5 mV rms max, typically 2 mV rms, <20 mV pk-pk, (20 MHz bandwidth) both outputs fully loaded (7A @ 25V), CV mode (XPF 35-10) Typically <1mV rms, <5mV pk-pk, (20 MHz bandwidth) both outputs loaded (10A @ 42V) CV mode (XPF 42-20)	
Transient Response	<2ms to within 100mV of set level (XPF 35-10) and <250μs to within 50 mV of set level (XPF 42-20) for 90% load change	
Temperature Coefficient	Typically <100ppm/°C	
Output Protection	Forward protection by OVP trip; maximum voltage that should be applied to the terminals is 50 V. Reverse protection by diode clamp for reverse currents up to 3 A	
Status Indication	LED indication of Output On, CV, CI and Power Limit. Message on display for over-voltage trip	
Output Switch	Push-push switch operating electronic power control. Preset voltage and current are displayed when the output is off	
Output Terminals	4mm terminals on 19mm (0.75") pitch. 15 A max. rating (XPF 35-10) and 30 A max. rating (XPF 42-20)	
Sensing	Remote sensing via a front panel terminal block or local sensing (at output terminals). Selection by slide switch	
Meter Resolution	10 mV, 10 mA	
Meter Accuracy:		
Voltage	0.2% ± 1 digit	
Current	0.5% ±1 digit	

### Power Envelope (each output)



### General Specifications

AC Input	110V-120V AC or 220V-240V AC ± 10% (adjustable internally, option HV for factory set 220-240 VAC input) 50/60 Hz. Installation Category II.
Cooling	Convection (XPF 35-10), Fan (XPF 42-20)
Power Consumption	600 VA max. (XPF 35-10), 1100 VA max. (XPF 42-20)
Operating Temperature Range	5 °C to 40 °C, 20% to 80% RH
Storage Range	-40 °C to + 70 °C
Environmental	Indoor use at altitudes up to 2000m, Pollution Degree 2
Safety	Complies with EN61010-1
EMC	Complies with EN61326
Dimensions (HxWxD)	5.1 x 8.3 x 14.8" (130 x 210 x 375 mm)
Weight	11 lb. (5kg)
Warranty	3 years
Approvals	CE-marked units meet: EN61010-1 and EN61326