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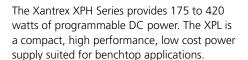
Compact High Power Bench DC Power Supplies

18-75 V

2 - 20 A

230

- 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)
- Variable 1.5 -5V output on triple output model
- Switchable remote sense



The XPH Series uses combined switchmode preregulation with linear post-regulation to provide performance comparable with an all-linear design. The XPH features excellent line and load regulation with low noise and good transient response. The XPH Series is available in a single, dual and triple output for benchtop use.

The XPH dual output models have two independent and isolated outputs with its own On/Off switch. The outputs can be wired in either series or parallel to provide higher voltage or higher current output. All outputs are intrinsically short circuit proof, and are protected against external voltages and reverse currents. The XPH triple-output model has the same features as the dual-output model with an additional switchable fixed output of 3.3 volts and 5 volts.

Output voltages up to 150 volts
The XPH-M Series is a dual-output 300-watt
power supply with multi-mode capability. This
enables it to operate as a dual power supply with
two independent and isolated outputs, or as a
single power supply of double the power. As a
dual, each output provides 0 to 75 volts at 0 to
2 amps (mode A). As a single the output can be
selected as either 0 to 75 volts at 0 to 4 amps
(mode B) or 0 to 150 volts at 0 to 2 amps (mode
C). In single modes, the unused half of the unit
becomes completely inoperative and its displays
are blanked.



Higher currents and remote sense

The XPH-R series are single-output power supplies similar in size and weight to the standard XPH series but offering higher output currents. To match their higher current capability, XPH-R models include switchable remote sensing and XPH extended voltmeter resolution.

Suitable for 42-volt automotive
The XPH 42-20 provides 420 watts of power
within a highly compact and lightweight unit. It
can provide current of up to 10 amps at voltages
up to 42 volts in both constant voltage and
constant current modes. The choice of 42 volts
enables it to be used as a test source for the new
generation of automotive electrical parts which
will use 42 volts (18-cell batteries) instead of 14
volts (six-cell batteries), thus reducing currents
and hence wiring losses. Switchable remote sense
is provided to remove the effects of connection
lead resistance at high current.

XPH Series : Product Specifications

Output : Voltage and Curre	nt					
Models	Output Voltage	Output Current	Output Power	Outputs		
XPH 18-10	0-18 V	0-10 A	180 W	1		
XPH 20-20	0-20 V	0-20 A	400 W	1		
XPH 35-5	0-35 V	0-5 A	175 W	1		
XPH 35-4D	0-35 V	0-4 A	280 W	2		
XPH 35-4T	0-35 V	0-4 A	305 W	3		
XPH 42-10	0-42 V	0-10 A	420 W	1		
XPH 75-2D	0-75 V	0-2 A	300 W	2		
Output Terminals						
Standard	4mm "touch proof" binding posts/terminals on 0.75"/19mm pitch. Suitable for bare wire, hook terminals or plugs.					
Input						
AC Input	110-240 V ± 10%, 50/60 Hz (XPH 35-5, XPH 35-4D, XPH 35-4T, XPH 75-2D) Factory set: 110-120 Vac ± 10% or 220-240 Vac ±10%, 50/60 Hz Installation Category II (XPH 18-10, XPH 20-20, XPH 42-10)					
Consumption	400 VA (XPH 35-5, XPH 18-10) 500 VA (XPH 35-4D, XPH 35-4T, XPH 75-2D) 800 VA (XPH 20-20), (XPH 42-10)					
General Specifications						
Operating Mode	Constant voltage or con	Constant voltage or constant current with automatic cross-over and indication				
Voltage Setting	By coarse and fine contr	By coarse and fine controls (auxiliary third output on XPH35-4T course only)				
Current Setting	By single logarithmic co	By single logarithmic control				
Output Impedance		Typically $<$ 5 m Ω in constant voltage mode. Typically $>$ 50 k Ω (XPH35-4, XPH75-2D), $>$ 20 k Ω (XPH35-5, XPH42-10), $>$ 10 k Ω (XPH18-10) in constant current mode.				
Line regulation	< 0.01% of max. output	< 0.01% of max. output for a 10% line voltage change				
Load regulation	< 0.01% of max. output for a 90% load change, < 0.1% (XPH75-2D in Mode C)					
Ripple & Noise Typically	< 2 mVrms, < 10 mVpk-	< 2 mVrms, < 10 mVpk-pk, < 15 mV (XPH75- 2D), <10mVpk-pk for XPH 20-20, CV mode (20 MHz bandwidth)				
Transient Response	< 200 μs to within 50 m	< 200 μs to within 50 mV of set level for 90% load change (mode A only XPH75-2D)				
Temperature Coefficient	Typically < 100 ppm /°C					
Output Protection	Outputs will withstand forward voltages up to 40 V (XPH 35-5. XPH 35-4D, XPH 35-4T) or 85V/170V (XPH 75-2D)					
Status Indication	Output ON lamps. Constant current mode lamps					
Output Switch	Electronic. Preset voltage/current displayed with output off.					
Remote Selection	Switch selectable as Local or Remote					
Regulatory	CE-marked units meet: EN61010-1 and EN61326					
Meters (main outputs)						
Meter Types	Separate four-digit meters for voltage and three-digit meter current with 14 mm (0.56") LED displays. Reading rate 4/sec					
Meter Resolutions	100 mV, 10 mA					
Meter Accuracy						
Voltage	0.3% ± 1 digit					
Current	0.6% ± 1 digit					

Environmental				
Operating Temperature	5 to 40°C			
Storage Temperature	- 40 to 70°C			
Humidity Range	20% to 80% RH			
Cooling	Convection (Fan assisted for XPH 42-10 and XPH 20-20)			
Environmental	Indoor use at altitudes to 2000 m, Pollution Degree 2			
Physical				
Dimensions (H x W x D)	6.3 x 5.5 x 12.6" (160 x 140 x 320 mm) (XPH 35-5, XPH 18-10, XPH 20-20, XPH 42-10) 6.3 x 10.2 x 12.6" (160 x 260 x 320 mm) (XPH 35-4D, XPH 35-4T, XPH 75-2D)			
Weight	6.2 lb (2.8 kg) (XPH 35-5, XPH 18-10) 7.9 lb (3.6 kg) (XPH 20-20, XPH 42-10) 9.5 lb (4.3 kg) (XPH 35-4D, XPH 35-4T) 9.7 lb (4.4 kg) (XPH 75-2D)			
Model Number Description				
Se	XPH 18 - 10 (XXX) Options			
	Voltage ——— Current			

Options and Accessories

MHV 220-240 Vac input factory set

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