

DESCRIPTION

UNIPOWER's High Voltage Division XRC and XRS Series power supplies combine a stable 0.05%, low-ripple high voltage power source with one or more filament supplies in one compact, well-proven package. This series offers models optimized for use in a wide variety of industrial, analytical, and medical applications.

Two key strengths of UNIPOWER's High Voltage Division X-Ray power supplies are reliability and stability. These qualities are achieved through the use of modular circuit architectures that benefit from UNIPOWER's High Voltage Division's 40 plus years of high-voltage experience.

Another contributor is the use of a proprietary solid high-dielectric encapsulation medium in most units, thus reducing weight and footprint. Finally, a deliberate "guard band" approach to the design uses components and systems with ratings that substantially exceed their typical in-service loads.

FEATURES

- ◆ Highly Stable
- ◆ Compact, Lightweight Design
- ◆ Digital Microprocessor Control
- ◆ Low Stored Energy
- ◆ Superior Arc Management with Configurable Arc Handling
- ◆ Over Voltage Protection
- ◆ Optional Labview GUI

ONE-YEAR WARRANTY

SAFETY COMPLIANCE

UL 601010/ EN601010



MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	POLARITY
XRC-100-30N-STD-L17	100kV	30mA	3kW	Negative
XRC-160-40N-STD-L17	160kV	40mA	3kW	Negative
XRC-225-30N-STD-D17	225kV	30mA	3kW	Negative
XRC-320-30C-STD-D17	±160kV	30mA	4kW	Bi-Polar
XRC-450-30C-STD-D17	±225kV	30mA	4kW	Bi-Polar

Customised versions and alternate polarities are available

Contact UNIPOWER to discuss your application and define the right part number for your specific application.

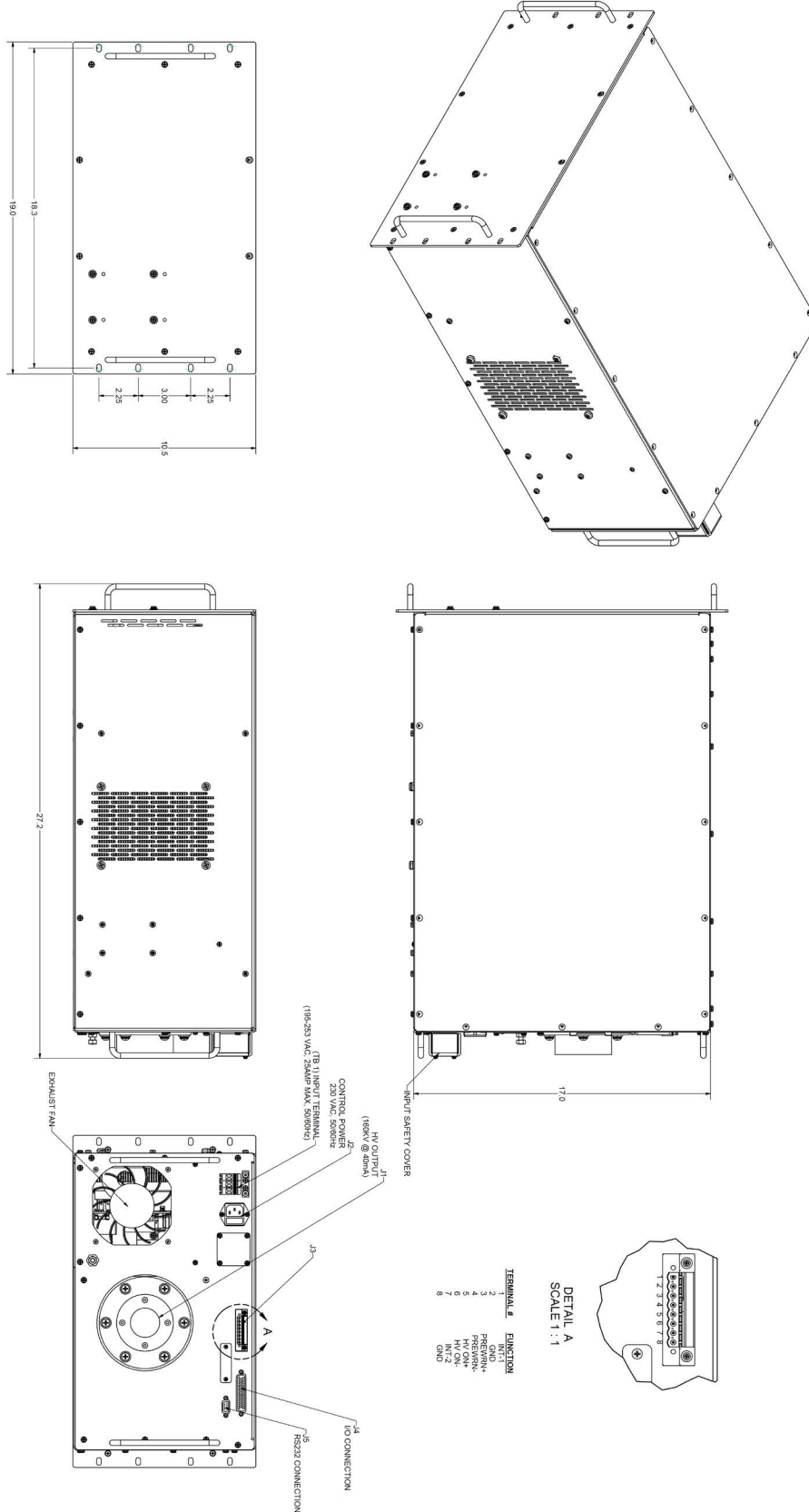
SPECIFICATIONS

Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

BASE MODEL	XRC-100-30N	XRC-160-40N	XRC-225-30N	XRC-320-30C	XRC-450-30C
Output (HV)					
DC Output Voltage	0-100kV	0-160kV	0-225kV	0 ±160kW	0 ± 450kV
Output Current	30mA	40mA	30mA	30mA	30mA
Max. Output Power	3kW			4kW	
Polarity	Negative			Bi-Polar	Bi-Polar
Efficiency	>85%				
Ripple/Noise (pk-pk)	<0.1%	<0.1%	<0.15%	<0.1%	<0.15%
Repeatability	0.03%				
Accuracy	0.5% of set value ±0.1kV				
Long Term Drift	0.05% over 10 hours after 30 minutes warm-up				
Temperature Drift	50ppm/°C at set value				
Line Regulation	±0.005%				
Load Regulation	±0.05%				
Voltage Ramp Up	0.1 sec to 0.3 sec for analogue interface 0.1 sec to 10 sec for RS232 interface				
Duty Cycle	100% continuous				
Output (Filament) Note: single and dual filaments available					
Output Voltage	8VDC				
Output Current	6A				
Ripple/Noise (pk-pk)	<1%				
Input					
Voltage Range	230VAC (+10/-15%)				
Phases	1				
Line Frequency	47-63Hz				
User Interface					
High Voltage Output	R-24 Cable Well			2 x R-24 Cable Well	
Remote Control	Analogue / RS232 (LabView GUI available)				
Interlock	Standard X-Ray (interlock 1 and 2, HV ON, Pre-warn ON)				
Protection	Arc (configurable), Over-Voltage, Over-Current, Over Temperature, High & Low Line, Internal Particulate Contamination (Dirt sensor)				
Mains AC Input	Main power - 3 Position Terminal Strip, Control - IEC60320 Inlet				
Mechanical / Environmental					
Dimensions w x h x d inches (mm)	19 x 10.5 x 22 (483 x 267 x 559)	19 x 10.5 x 24 (483 x 267 x 610)	19 x 17.5 x 33 (483 x 445 x 388)	19 x 10.5 x 24 (483 x 267 x 559) (2 modules)	19 x 17.5 x 33 (483 x 445 x 388) (2 modules)
Weight	100lbs / 45.4kg	135lbs / 61.2kg	250lbs / 113.4kg	270lbs / 122.5kg	500lbs / 226.8kg
Operating Temp.	0°C to +40°C				
Storage Temp.	-20°C to +85°C				
Humidity	5 to 95% RH non-condensing				
MTBF	>50,000 hrs				
Safety	UL/IEC/EN61010-1				

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TYPICAL OUTLINE (160kV)



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