

This series of power supplies have been designed and developed for continuous operation to meet NDT inspection requirements in various fields. Non-destructive testing is extremely valuable for evaluation, troubleshooting, research, and quality control in science and industry.

These compact high frequency units have to be connected to an X-Ray tube to generate X-rays. The high radiation output allows for lower kV per exposure, superior imaging for better evaluation.

### Features:

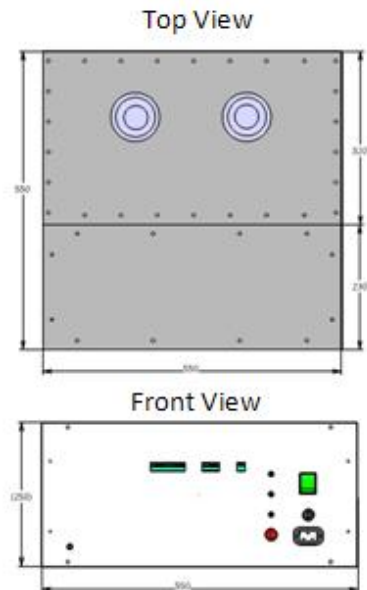
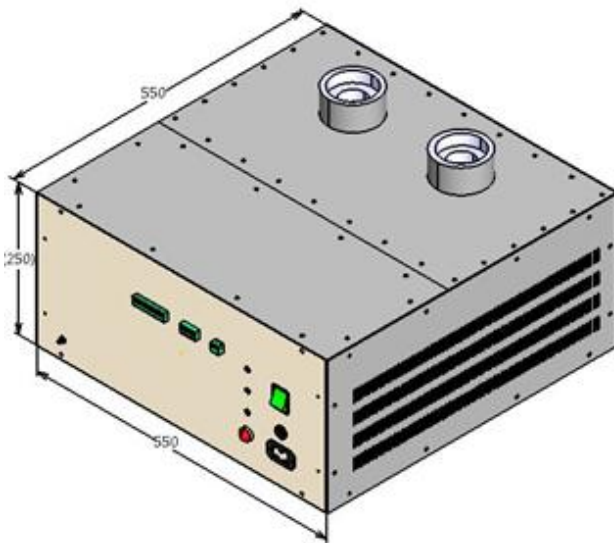
- Compact
- Superior Imaging
- Lower kV per exposure
- Microprocessor / PLC control
- Easy serviceability



### TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Input Voltage	230V $\pm$ 10% AC, 50Hz, single phase
No. of Outputs	2
Output Voltage 1	0 to +80kV DC
Output Voltage 2	0 to -80kV DC
Output Current	0 to 5mA
Filament Voltage and Current	Filament 1: 2.5Vmax 4.3A max Filament 2: 6.3V max 4.1A max
Polarity	Positive and negative
Line Regulation	< 0.1% for $\pm$ 10% variation in input voltage
Load Regulation	< 0.5% for 10% load variation (tube current)
Mode of Operation	Constant voltage - constant current (x-ray anode current)
0-10V DC Signals from Power Supply to PLC	Output voltage readout Output current readout
0-24V DC Signals from PLC to Power Supply	Selection of small/large filament Rotor start/stop HV ON/OFF
0-10V DC Signals from PLC to Power Supply	Output voltage control Output current control
Potential Free Contacts from Power Supply to PLC	Over voltage fault Over current fault
Rotating Anode Circuit	Based on 24V DC signal from the PLC, 160V for 0.8sec and 40V for running till the presence of the 24V DC.
Protections	Overload, short-circuit and arc
Topology	SMPS
Cable and Connectors	To be supplied by the OEM
Size	Compact MS cabinet, 550mm $\times$ 550mm $\times$ 250mm (W $\times$ D $\times$ H)

Cabinet Details:



Remote Interface Connector Configuration			
Pins	12 Pin Pluggable Connector	6 Pin Pluggable Connector	3 Pin Pluggable Connector
1	HV Enable	Over Voltage PFC - NC	Rotor 1
2	Large / Small Filament Selection	Over Voltage PFC - Pole	Rotor 2
3	Rotor Start / Stop	Over Voltage PFC - NC	Rotor 3
4	Common	Over Current PFC - NC	
5	Voltage Program	Over Current PFC - Pole	
6	Current Program	Over Current PFC - NO	
7	Common		
8	Voltage Monitor		
9	Current Monitor		
10	Common		
11	Common		
12	Common		
PFC – Potential Free Contact			

Ordering Code    XR    160    K    800    W    B    C    I    B    5    T

For any queries or customization requests contact us at [info@ionics.co.in](mailto:info@ionics.co.in)

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