

X-ray Power Supplies

XR Series 30kV, 50kV, 65kV 50W to 100W

1016-07Pa



FEATURES

- For grounded Cathode X-ray Tubes.
- Compact High Power 50W to 100W.
- 0.05% Emission current regulation.
- Remote and local emission control.
- Adjustable filament current.
- Safety interlock.
- Overvoltage and short circuit protection.
- CE certified for 50W and 75W of 50kV model.

APPLICATIONS

This compact module incorporates adjustable beam, bias and filament supplies for low power X-ray applications.

High voltage and filament current ramp up linearly for fast starts. Constant emission current is adjustable from 0 to full output for precise emission control.

| Output Voltage (kVdc) | Output Current (mA) | Model* | Input Current (A max) | Filament Supply |
|-----------------------|---------------------|----------------|-----------------------|--|
| 0 to +30 | 1.67 | XR-305-50-## | 4 | 0.3 to 3.5Adc,adjustable. Compliance Voltage 4.5V (9W max) |
| 0 to +50 | 1 | XR-505-50- ## | 4 | |
| | 1.5 | XR-505-75- ## | 6 | |
| | 2 | XR-505-100- ## | 8 | |
| 0 to +60 | 1 | XR-605-60- ## | 4.8 | |
| 0 to +65 | 0.77 | XR-655-50- ## | 4 | |

SPECIFICATIONS

| | |
|------------------------------|---|
| Input Voltage | 24V ±10% |
| Voltage control | Local : via internal multi-turn trimmer Remote : via external voltage source 0 to 10V (Accuracy ±1%, Input impedance 10MΩ) |
| Emission Control | Local : via internal multi-turn trimmer Remote : via external voltage source 0 to 10V (Accuracy ±1%, Input impedance 10MΩ) |
| Regulation | Line : ±0.01% Load : ±0.01% |
| Ripple | 0.2%p-p |
| Stability | 0.05% / 8Hr for Voltage and Current |
| Temperature Coef. | 0.01% / °C |
| Operating Temperature | 0°C to + 50°C |
| Monitor Output | Voltage monitor : 0 to 10V, ±1% accuracy, output impedance 1kΩ Current monitor : 0 to 10V, ±1% accuracy, output impedance 1kΩ |
| I/O connectors | Three Phoenix screw terminals and one 9pin mini D-type connector for INPUT, remote control, monitor output, filament and bias output. |
| Interlock | Short to GND through a 12V lamp : HV/ON OPEN : HV/OFF |
| Protection | Over voltage, Over current protection. Arc, Short circuit |

Note : These specifications are at the maximum rated output after a ½Hr warm-up period unless otherwise specified.

OPTION

LB Bias Supply
0V to -300V adjustable,
output current 0.25mA

LGH LGH-3I connector

Add " -L " to the model number when ordering.
(i.e.) XR-505-50-01-LBGH

Shielded HV output cable Part# CN-XR(1.5)
58.5"(1.5m) flying lead

(When a connector of the suitable X-ray tube is required, please contact us.)



Please ask for CE marked models

DIMENSIONS inch(mm)

9.5" × 3.3" × 5.5"(240 × 83.5 × 140)