

**30kV – 65kV, 50W – 100W
COMPACT, HIGH POWER
X-RAY POWER SUPPLIES**

 **Matsusada Precision**



■ 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	



Please ask for
CE marked models

■ 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.

■ OPTIONS

- 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.)

■ DIMENSIONS inch (mm)

9.5" × 3.3" × 5.5"(240 × 83.5 × 140)