

High power X-ray module equipped with Beryllium window



XWR-Be Series

01.164.02|31-1



FEATURES

- Equipped with Beryllium window
- Wide radiation
- Continuous operation is available.
- Stable X-ray output
- User-friendly operation

SUMMARY

XWR-Be series is the 2-unit type X-ray module with high-stability power supply and X-ray tube. Compatible high power and compactness by our original thermal design technologies. Suitable for integration to the measurement equipment. Achieve high-contrast X-ray image by high power X-ray and using Beryllium window.

LINEUP

Anode voltage	MAX	50kV
	MIN	5kV
Beam current		2mA
Max Power		100W
Focal spot size		0.5mm
Radiation angle		50°
Window material		Beryllium
Operation		Continuous
Dimension WxDxH <small>inch (mm)</small>	Controller unit	8.35×12.99×5.51 (212×330×140)
	X-ray unit	5.12×10.75×6.97 (130×273×177)
Weight (kg approx)	Controller unit	10
	X-ray unit	6
Model		XWR100-50-Be

SPECIFICATIONS

Input voltage	100VAC to 120VAC 50/60Hz single phase 200VAC to 240VAC 50/60Hz single phase (-L(200V)option)	Protections	Over voltage protection Over current protection Protection against output short-circuit and arc discharge Filament protection Blackout protection Over temperature protection
Output control	Voltage Local : 10-turn potentiometer on front panel Remote : External control voltage 0 to 10Vdc (Input impedance more than 1MΩ) or by external 5kΩ potentiometer Current Local : 10-turn potentiometer on front panel Remote : External control voltage 0 to 10Vdc (Input impedance more than 1MΩ) or by external 5kΩ potentiometer	Other functions	Remote switch ON/OFF Interlock by door switch Output status signal output
Display	Output voltage : 3½-digit digital meter Output current : 3½-digit digital meter LED display of the status of X-ray ON/OFF, STNDBY, INTERLOCK and AGING	Operating temp.	0 to +40°C
Monitor output	Output voltage monitor : 10V/Maximum output voltage (Output impedance 1kΩ) Output current monitor : 10V/Maximum output current (Output impedance 1kΩ)	Storage temp.	0 to +50°C
		Humidity	30% to 80%RH (no condensation)
		Accessories	AC line input cable 2.5m (1) Shielded HV output cable 2.5m (1) Instruction manual (1)

OPTION

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-L(200V) 200VAC to 240VAC 50/60Hz single phase input

*When ordering, suffix the above option number to the model number.

Warranty

We warrant that products contained in this catalog (hereinafter, the "Products") are free from defects in material and workmanship under normal use for a period of one (1) year from the date of shipment thereof. However, the warranty period for X-ray detectors and X-ray source shall be either one (1) year from the date of shipment or 1,000 hours, whichever shorter. The above warranty shall not apply to any Product which, at our sole judgment, has been: i) Repaired or altered by persons unauthorized by us; or ii) Connected, installed, adjusted or used otherwise than in accordance with the instructions furnished by us (including being used in an inappropriate installation environment, such as in corrosive gas, high temperature and humidity). We are not liable for any loss, damage or failure of the Products after the shipment thereof caused by external factors such as disasters. If any Product is showed to be defective as satisfactory to us, we, at our sole discretion, repair or replace such defective Products at no cost to the purchaser. We assume no liability to the purchaser or any third party for special, incidental, consequential, or other damages resulting from a breach of the foregoing warranty. This warranty excludes any and all other warranties not set forth herein, express or implied, including without limitation the implied warranties of merchantability or fitness for a particular purpose. The Products are not designed and produced for such applications as requiring extremely high reliability and safety, or involving human lives (such as nuclear power, aerospace, social infrastructure facility, medical equipment, etc.). The use under such environment is not covered by this warranty and may require additional design and manufacturing processes. Regarding RoHS compliance, Matsusada Precision Inc. does not intentionally use objectionable substances in the products listed within this catalog. Matsusada Precision Inc. manufactures products using components which, according to our suppliers, are "RoHS compliant parts". However, Matsusada Precision does not analyze each and every unit to confirm. Therefore, there may be some customized products which do not comply to RoHS. Please contact your nearby sales office for confirmation.

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San Jose Office : 2570 N. First Street Suite 200 San Jose, CA 95131
 Tel: +1-408-273-4573 Fax: +1-408-273-4673
New York Office : 80 Orville Drive Suite 100 Bohemia, NY 11716
 Tel: +1-631-244-1407 Fax: +1-631-244-1496

Dallas Office : 5430 LBJ Freeway, Suite 1200 Dallas, TX 75240
 Tel: +1-972-663-9336 Fax: +1-972-663-9337
Boston Office : 859 Willard St. One Adams Place, Suite 418 Quincy, MA 02169
 Tel: +1-617-663-5711 Fax: +1-617-663-5331

International Office : Osaka-City, Osaka Japan
 Tel: +81-6-6150-5088 Fax: +81-6-6150-5089
Headquarters : 745 Aoji-cho Kusatsu Shiga 525-0041 Japan
 Tel: +81-77-561-2111 Fax: +81-77-561-2112