

XR Series X-ray power supply in block configuration

TX Series X-ray power supply in stand alone unit configuration with instrumented front panel

16 standard models

Vin : 24Vdc or universal 85-264 Vac
depending on model

Vout : up to +90V

Pout_{max} : up to 180Watts



**block configuration
XR**



**stand alone unit configuration
TX**

The power supplies for X-ray tubes can be fitted in blocks with inputs and outputs only (XR) or made into stand alone units that can be controlled either manually or through remote controls (TX). High voltage source: the voltage and the current are adjustable. Filament current source: the current is auto-regulated to generate the expected high voltage current. The maximum filament current is adjustable and the maximum output power is 180 Watts.

Block characteristics (XR series)	
Settable High Voltage source	<ul style="list-style-type: none"> up to 60kV 100W (see selection guide below) output voltage and current settable via multi-turn potentiometers (Local) or external voltage source (Distant) selection switch for the Local/Distant mode output voltage and current monitoring via dc analogue buffered output load and line regulation : $\pm 0,01\%$ residual undulation : 0,01% peak-to-peak
Auto-regulated filament current source	<ul style="list-style-type: none"> max output current settable by mono-turn potentiometer, up to 4A output current monitoring via dc analogue buffered output proportional from 0 to 4A max output power: 20W
Common specifications	<ul style="list-style-type: none"> line input : 24Vdc $\pm 2Vdc$ 24V input indicator
Mechanical configuration	machined AU4G black anodised aluminium case with screw plug for grounding Height : 61mm, Depth : 105mm Length : 225 or 285mm depending on model

Stand alone unit characteristics (TX series)	
High Voltage assembly	<ul style="list-style-type: none"> the bench top case integrates a XR block plus facilities line input : solution 1 : 24Vdc $\pm 2Vdc$ solution 2 : universal 85-264 Vac + mains ON/OFF switch on rear panel
Controls and metering on front panel	<ul style="list-style-type: none"> safety key high voltage ON/OFF switch and indicator selection switch for the Local/Distant mode output Voltage and current metering by 3.5 digits digital meters output Voltage and current setting via 10-turn potentiometers with turns-counting dial
Controls on rear panel	<ul style="list-style-type: none"> input 24Vdc through BR2 connector fuse for 24V : 2,5A temporised mains ON/OFF switch high voltage output through UHF type connector heating output through LEMO® connector TTL (ON/OFF) 0V,+5V HV status additional output 12V 0,5W Sub-D connector for remote setting and monitoring screw plug for grounding
Chassis, dimensions	chassis 2U 42E, Length: 257mm, Height: 103mm, Width: 313mm,
Weight	5kg

XR & TX Series Selection Guide							
Model	V _{out}	I _{out}	P _{out}	Model	V _{out}	I _{out}	P _{out}
XR or TX 103101	10kV	0.10 mA	1 W	XR or TX 303401	30kV	0.40 mA	12 W
XR or TX 103201	10kV	0.20 mA	2 W	XR or TX 303501	30kV	0.50 mA	15 W
XR or TX 103301	10kV	0.30 mA	3 W	XR or TX 503102	50kV	1.00 mA	50 W
XR or TX 103501	10kV	0.50 mA	5 W	XR or TX 503152	50kV	1.50 mA	75 W
XR or TX 103102	10kV	1.00 mA	10 W	XR or TX 503202	50kV	2.00 mA	100 W
XR or TX 303101	30kV	0.10 mA	3 W	XR or TX 603102	60kV	1.00 mA	60 W
XR or TX 303201	30kV	0.20 mA	6 W	XR or TX 803251	80kV	0.25 mA	20 W
XR or TX 303301	30kV	0.30 mA	9 W	XR or TX 903202	90kV	2.00 mA	180 W

