

High Frequency X-Ray Generators



SPECIFICATIONS

Power Rating of Constant Potential	30kW	40kW	50kW	60kW
Radiographic kV Range in 1kV steps Accuracy	40-125kV (1kV step) ± 3%	40-125kV (1kV step) ± 3%	40-125kV (1kV step) ± 3%	40-125kV (1kV step) ± 3%
mA Range and Stations	10, 25, 50, 75, 100, 150, 200, 250, 300	10, 25, 50, 75, 100, 150, 200, 250, 300	10, 25, 50, 75, 100, 150, 200, 250, 300	10, 25, 50, 75, 100, 150, 200, 250, 300, 400, 500, 630, 800, 1,000 (± 3%)
Accuracy	(± 3%)	(± 3%)	(± 3%)	(± 3%)
Power Output	300mA @ 100kV 200 mA @ 125 kV	300mA @ 100kV 200 mA @ 125 kV	300mA @ 100kV 200 mA @ 125 kV	300mA @ 100kV 200 mA @ 125 kV
Exposure Time Range Accuracy	0.001-6 seconds (81 steps) ± 2%	0.001-6 seconds (81 steps) ± 2%	0.001-6 seconds (81 steps) ± 2%	0.001-6 seconds (81 steps) ± 2%
mAs Range	0.1-500 mAs	0.1-500 mAs	0.1-500 mAs	0.1-500 mAs
High Voltage Ripple (TYP)	<1kV@100kV			
Automatic Exposure Control (upto 2 chambers)	Optional			
Buckys (2 standard)	Standard			
Anatomical Program	Standard (288)			
Uninterruptible Power Supply (*)	Optional			

(*) Uninterruptible Power Supply Option - Line Power Requirement is 500W

Fluoroscopic kV Range 1kV steps Accuracy		40-120kV (1kV step) ± 3%	40-120kV (1kV step) ± 3%	40-120kV (1kV step) ± 3%	40-120kV (1kV step) ± 3%
Automatic Brightness Control			Optional		
3 point Operation Console	Standard				
Line Voltage Range and Phase	220 - 230VAC 50/60Hz Single Phase		380 VAC 50/60Hz Three Phase		
Automatic Line Compensation	± 15%	± 15%	± 15%	± 10%	± 10%
Dimensions (mm)	590 * 600 * 440mm	590 * 600 * 440mm	590 * 600 * 440mm	590 * 600 * 440mm	590 * 600 * 440mm
Weight	110KG	120Kg	125KG	125KG	125KG

* Above specifications can be modified without prior notice

Internal appearance of High Frequency Generator



The HFG size will be slightly different upon its specification

High Frequency Generators



MONOBLOC X-RAY GENERATOR E-40 HF

40 KHZ, FOR FLUOROSCOPY & RADIOGRAPHY WITH STATIONARY ANODE X-RAY TUBE

This family of monoblocs has been developed for the intended use of being implemented into mobile units for radiography, mobile units for fluoroscopy or small-powered units for stationary radiography.

ODI has obtained significant recognition amongst OEM partners and creates personalization which may satisfy more and more market demands. ODI produces specifically High Frequency X-Ray Generators for C-Arm and Mobile X-Ray Units. The bigger generators with 30KW, 40KW and 50KW are designed ergonomically to achieve desired results to the utmost satisfaction of the customer.

X-RAY TUBE ASSEMBLY

HF Generator

Aluminium Housing	
Maximum Power (100kV - 35mA)	3.5 kW
Maximum Voltage to the X-Ray Tube	110 kV
Maximum Current to the X-Ray Tube	80 mA
Ripple at the Maximum Power	< 1%
Max kV Rise Time to Maximum Power	< 1 ms
Cathode to ground	55 kV
Anode to ground	55 kV

Performance With Large Focus

30 mA at 110 kV	Radiography (max 5 seconds)
40 mA at 80 kV	Radiography (max 5 seconds)
80 mA at 40 kV	Radiography (max 5 seconds)

Performance With Small Focus

2 mA at 110 kV	Continuous Fluoroscopy)
----------------	-------------------------

Housing's Features

S.E.V. (Without Collimator) at 80 kV	1.9 mm Al
Minimum Inherent Filtration at 80 kV	1.8 mm Al
(in accordance with : USA N.C.P.R. - Part	

Thermal Features

Thermal Capacity	300 kJ
------------------	--------

Thermal Safety

Thermal Switch (Normally Closed)	57 ± 3°C
Compensation Below	0.3 dm ³
Continuous Thermal Dissipation	60 W
Maximum Housing's Temperature	60°C

Output Signals

kV+	(Analog Signal)	0 - 5.5 V
kV-	(Analog Signal)	0 - 5.5 V
mA+ & mA-	(Analog Signal)	0 - 80 mA
Thermal Safety	(Logic Signal)	Normally Closed

Leakage Radiation

Less than	1 mGy per Hour,
	according to IEC 601-1-3 Applicable Standard
	(Par. 29.204)

ACCESSORIES

Inverter	O-1040-5 HF
400 Hz Filament Card	O 15

- # 40 Khz Monoblock with Stationary Tube for C-Arm (Fluoroscopy and Radiography)
- # 40 Khz Monoblock with Rotating Anode Tube (Fluoroscopy and Radiography)
- # 40 Khz Monoblock with Stationary Anode Tube for Mobile X-Ray (Fluoroscopy and Radiography)
- # H.V. Generator for mammography and OPG

Thanks to the strength of our company, ODI could meet the request for top quality products. We try to make reliable generators aiming at wider cooperation with O.E.M. partners.