



G100 NL-50F DR

Radiographic 50 kW high frequency generator

Product Data

Radiological features

Application	Radiography
Power	50 kW
High Voltage Frequency	50 kHz
Exposure time range	1 ÷ 10000 ms
ms accuracy	± (5% + 0.2 ms)
kV range	40 ÷ 150 kV in 1 kV steps
kV accuracy	± 5%
mA range	10 ÷ 630 mA in 1 mA steps
mA accuracy	≤ ± (5%) (mA > 25 mA, ms > 5) ≤ ± (10% + 1 mA) (mA ≤ 25 mA) ≤ ± 20% (ms ≤ 5)
mAs range	0.5 ÷ 630 mAs in 1 mAs steps
mAs accuracy	± (5% + 0.2 mAs)
Working places	Up to 3
N° tubes	1
Rotating anode speed	Interface for low speed tubes.
Technique selection	3 points kV, mA, ms) 2 points (kV, mAs) 2 points with AEC (kV, mA) in option
Anatomical programs (APR)	Defined through Villa's digital image acquisition system
Safeties	Overload, Overvoltage, Overcurrent, Anode temperature, Anode rotation
User interface	Mini console with two pushbuttons for generator switch on/off. Selection of exam parameters through Villa's digital image acquisition system
Focus selection	Manual or automatic selection of 2 focal spots
Anode heat calculator	Real time calculation and display of anode heat content (HU%)



AEC (option)

AEC technique	2 points
Measuring chamber	3 fields
Screen-film speed combination	3 choices: high, middle, low (200 ÷ 1200)
Film darkening adjustment	-8 ÷ +8
Number of receptors	Up to 2

Accessories

X-ray handswitch	Supplied as standard
DAP meter	Option

Electrical features

Power supply voltage	380/400 Vac $\pm$ 10% three phase
Frequency	50/60 Hz
Line impedance	$\leq 0,17 \Omega$ @ 380 Vac
Line voltage compensation	Automatic
Momentary current	130 A @ 380 Vac
Standby current	≤ 1 A
Momentary power consumption	72 kVA

Dimensions and weights

Item	Dimensions	Weight
Mini console	144 x 80 x 24 mm (WxDxH)	< 1 kg
Electrical cabinet	600 x 600 x 800 mm (WxDxH)	110 kg
HT transformer	Integrated in the cabinet	

Environmental conditions

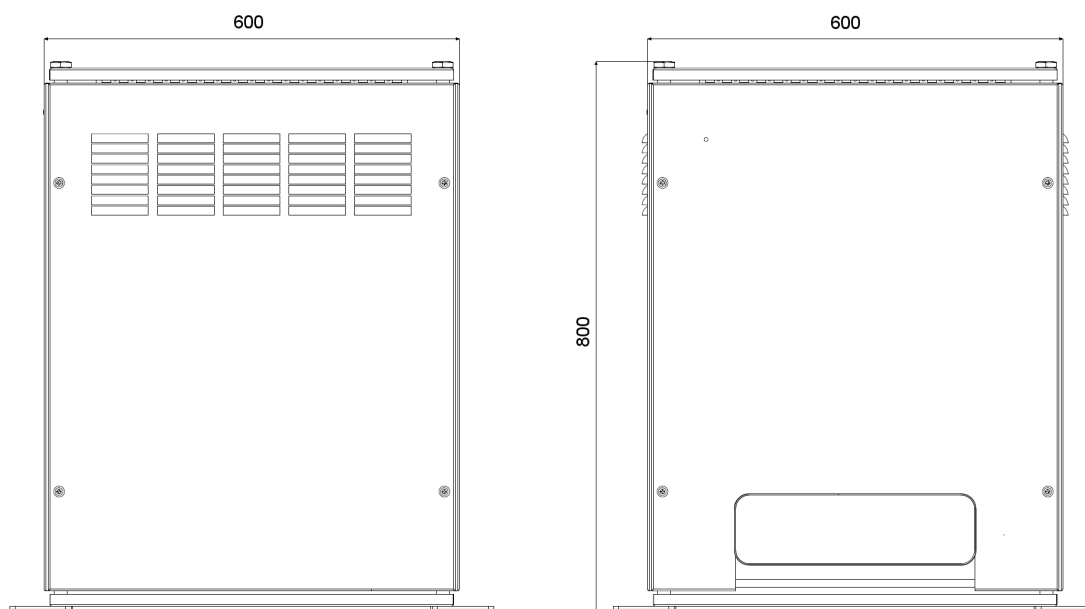
Operating conditions	Temperature: from +10° to +40° Celsius (50° F to 104° F) Humidity: from 30% to 75% Pressure: from 700 to 1060 hPa
Conditions for transport and storage	Temperature: from -35° to +75° Celsius (-31° F to 158° F) Humidity: from 10% to 95% non condensing Pressure: from 500 to 1060 hPa

Standards and Regulations

0123	CE symbol grants the product compliance to the European Directive for Medical Devices 93/42/EEC and its revised versions as a class IIB device
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Dimensions in mm



Electrical cabinet



Mini console

Note: Products are continuously under review in the light of technical advancement. The actual specification may therefore be subject to improvement or modification without notice.

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Company with Quality System certified by



ISO 9001: 2015

ISO 13485: 2016