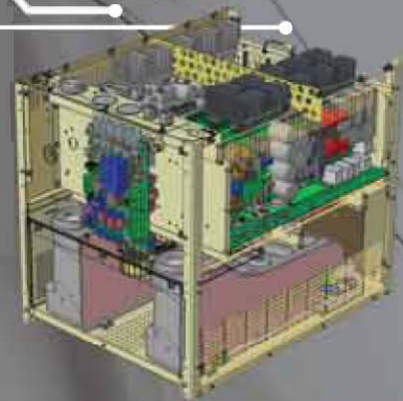




CARDIAC EPSILON HIGH-VOLTAGE GENERATOR



POWERFUL X-RAY GENERATORS



POWERFUL X-RAY GENERATORS



RELIABILITY AND MODULAR DESIGN

POWER SCALABILITY FROM 50 KW TO 100 KW

STANDARD FEATURES

- Unequalled exposure repeatability for superior digital imaging
- Four (4) I.I. magnification levels/receptor
- Integrated dual speed starter
- Expansion motherboard for simplified customization through optional boards
- Automatic X-ray tube calibration
- Anatomically programmed vascular regions (APR) with exam names in Roman, Greek, Cyrillic and other alphabets
- Easy customization/configuration software cuts system set-up time considerably
- RS-232 or CAN software providing full flexibility for customer control
- Intelligent Arc Recovery mechanism prevents losing exposures during tube arcs
- Smart inverter management optimizing the life of inverter boards
- Auto diagnostic for simplified maintenance

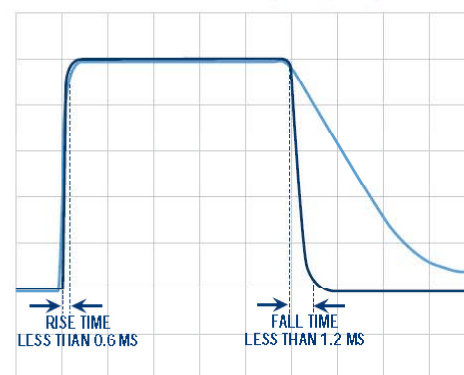


EPSILON PC TOOLS

- The Epsilon PC Tools is a program used to set up, customize, service and maintain the EPS 45-80 High-Voltage Generator
- It includes a diagnostic mode, a database transfer engine, a second language module and allows downloading the application firmware from a PC to the Epsilon generator
- Software updates, tube library, communication protocols are all downloadable from [emd technologies Customer Web Page](#)

epsilon™ GENERATOR UNIQUE FEATURES

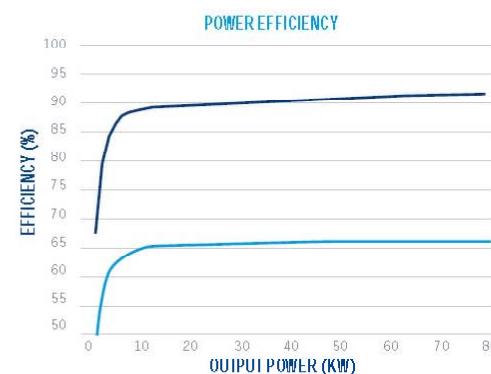
TYPICAL PULSE IN CINE @ 30 f/s, 100 kV, 32 mA, 12.5 ms



• WITHOUT CABLE DISCHARGE UNIT • WITH CABLE DISCHARGE UNIT

EXTREMELY SHARP kV waveform with rise and fall times unparalleled in the industry, resulting in superior image quality and reduced soft radiation

PATENTED CABLE DISCHARGE technique allowing near-perfect square waveforms for images of extremely high quality



• EPSILON HF GENERATORS • CONVENTIONAL GENERATORS

EXCEPTIONALLY HIGH EFFICIENCY of 92% resulting in reduced power consumption and increased equipment reliability

SOLID DIELECTRIC high-voltage encapsulation

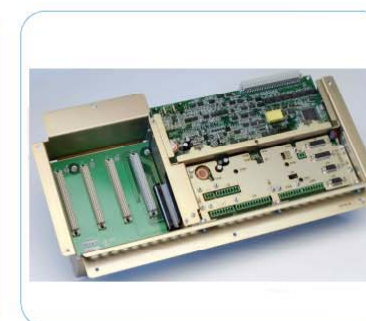
UP TO 90 f/s



HIGH-VOLTAGE MODULE



STARTER BOARD



CONTROLLER BASKET

EPS 45-80 HIGH-VOLTAGE GENERATOR SPECIFICATIONS

CARDIAC

Cineradiography @ Auto-kV or Auto-mA

Auto-kV	Fully automatic cineradiography using auto-kV exposures, from 40 to 125 kV @ frame rates up to 30 f/s ^(*)
Auto-Contrast	Auto-kW mode for optimum contrast Auto-mA mode for dose reduction

RAD Power ^(*)	50 kW	65 kW	80 kW	90 kW	100 kW
RAD kV	40 – 150 (Vascular mode)				
RAD mA	10 – 630	10 – 800	10 – 1000	10 – 1000	10 – 1000
RAD mAs	0.4 – 1000				
RAD time (s)	0.001 – 10.0				
Source of AEC Control	Ion chamber, photodiode, PMT tube or external DC voltage level				

FLUORO

Continuous

Pulsed @ 0.25-30 p/s (‡)

FLUORO kV	40 – 125	40 – 125
FLUORO mA	0.2 – 12.5	5.0 – 80
FLUORO mAs	--	0.025 – 5.0
Source of ABS Control	Photodiode, PMT tube or external DC voltage level	

*Other power configurations available ‡ Up to 90 f/s with High Frame Rate option

Power Line

3-phase line, Delta or Wye configuration, 400 VAC – 480 VAC (50 – 60 Hz), Input line Voltage $\pm$ 10 % (automatic adjustment)

Dimensions

With decorative cabinet

472 mm x 768 mm x 812 mm
(18.6" x 30.2" x 32")
79-90 kg (178-198 lb)*
(* Depending on configuration)

With cable discharge unit

472 mm x 768 mm x 1 287 mm
(18.6" x 30.2" x 50.7")
135-143 kg (295-315 lb)*

OPTIONS

- Cable discharge unit
- Digital angiography (D.S.A. & D.A.)
- High frame rate (90 f/s, RAD & fluoro)
- Stepping table
- Source to patient dose compensation
- Auxiliary power supplies (24 VDC/24 VAC)
- Photodiode ion chamber fluoro board
- Solid state ion chamber interface
- Expansion boards (Relay, I/O., etc)
- DAP interface
- Handswitch



REGULATORY & QUALITY APPROVALS



Santé
Canada
n° 116052



n° 9049769



n° 0413



400 du Parc,
Saint-Fustache (Quebec),
Canada, J7R 0A1

Tel : + 1.450.491.2100
1.888.491.2100
Fax : + 1.450.491.4138

www.emd-technologies.com