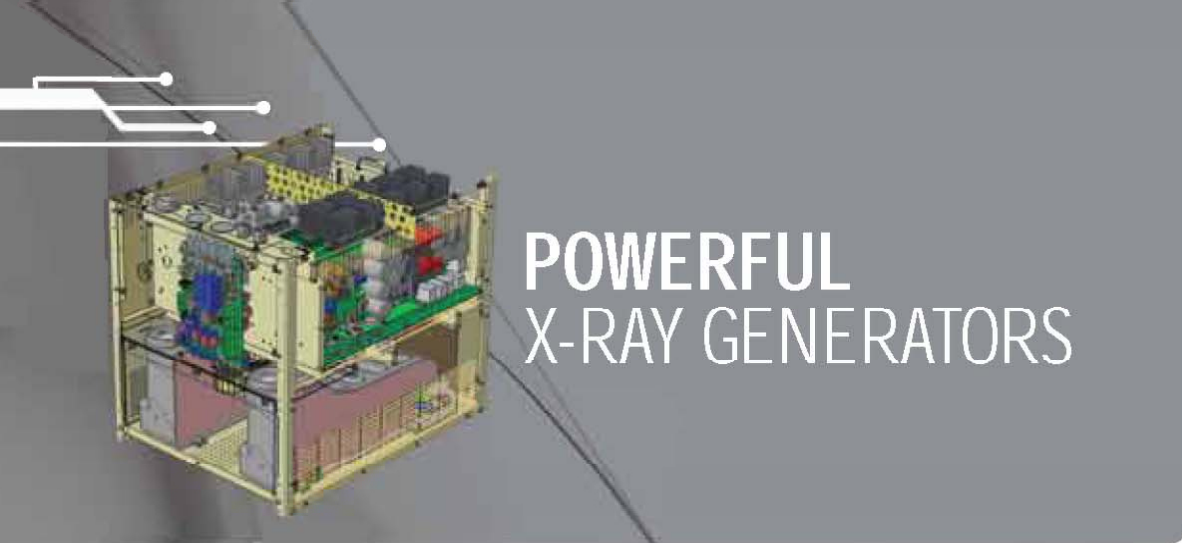




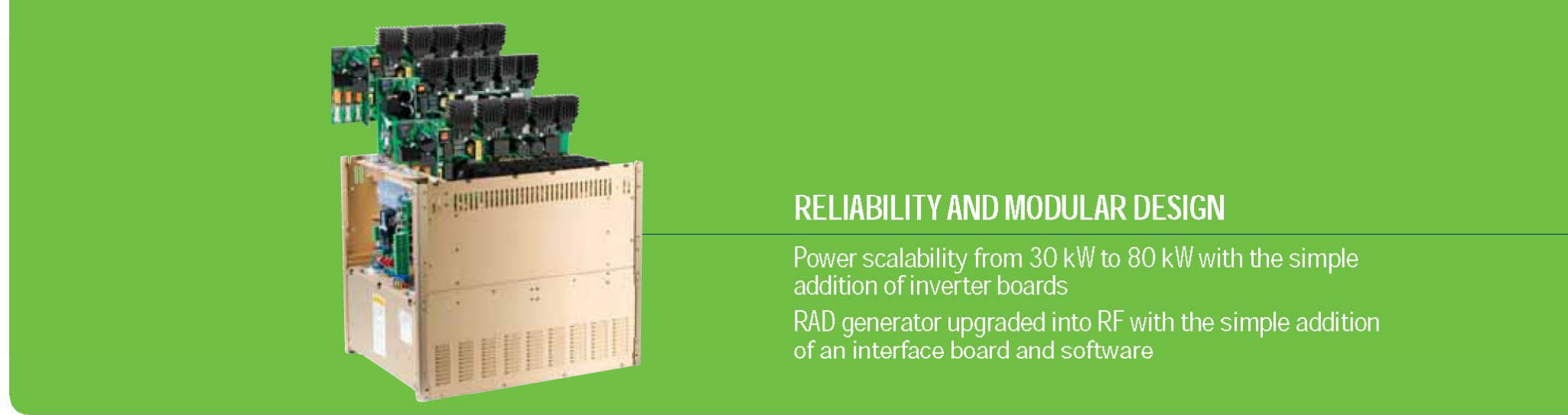
RAD/RF EPSILON HIGH-VOLTAGE GENERATORS



POWERFUL X-RAY GENERATORS



POWERFUL X-RAY GENERATORS



RELIABILITY AND MODULAR DESIGN

Power scalability from 30 kW to 80 kW with the simple addition of inverter boards

RAD generator upgraded into RF with the simple addition of an interface board and software



STANDARD FEATURES

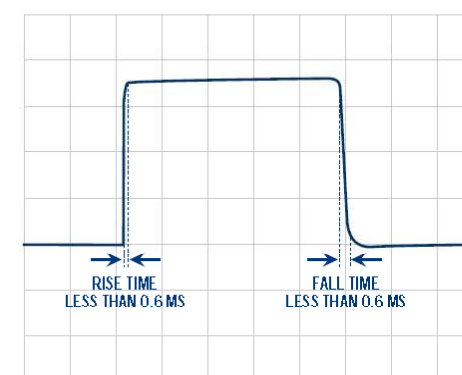
- 2,000 anatomically programmed regions (APR), with exam names in Roman, Greek, Cyrillic and other alphabets
- 6 RF image receptors (4 for RAD configuration)
- Expansion motherboard for simplified customization through optional boards
- Integrated low speed starter
- Easy customization/configuration 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
- Automatic X-ray tube calibration

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

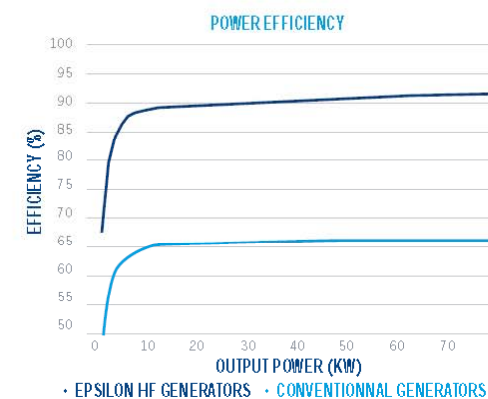
epsilon™ GENERATOR UNIQUE FEATURES

TYPICAL kV WAVEFORM: 100 kV, 800 mA, 10 ms



TREMENDOUS DOSE REDUCTION TO PATIENT, TECHNOLOGIST AND PHYSICIAN

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



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

SOLID DIELECTRIC high-voltage encapsulation

UNIVERSAL POWER INPUT allowing the same generator to operate with line inputs of 380 VAC to 480 VAC, 50/60 Hz



HIGH VOLTAGE MODULE



STARTER BOARD



CONTROLLER BASKET

EPS 45-80 HIGH-VOLTAGE GENERATOR SPECIFICATIONS

RAD Power ^(*)	30 kW	45 kW	50 kW	65 kW	80 kW
RAD kV	40 – 150				
RAD mA	10 – 400	10 – 500	10 – 630	10 – 800	10 – 1000
RAD mAs	0.4 – 500	0.4 – 1000	0.4 – 1000	0.4 – 1000	0.4 – 1000
RAD time (s)	0.001 – 10.0				0.001 – 10 ^(†)
Source of AEC Control	Ion chamber, photodiode, PMT tube or external DC voltage level				

*Other power configurations available (†) 63 s with High Performance Radiography option

FLUORO	Continuous	Pulsed (0.25-30 p/s)
FLUORO kV	40 – 125	40 – 125
FLUORO mA	0.2 – 12.5	16 – 80
FLUORO mAs	--	0.08 – 5.0
Source of ABS Control	Photodiode, PMT tube or external DC voltage level	

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

Dimensions	Without decorative cabinet	With decorative cabinet
	441 mm x 578 mm x 492 mm (17.4" x 22.7" x 19.4")	472 mm x 768 mm x 812 mm (18.6" x 30.2" x 32")
	64-75 kg (140-165 lb)*	79-90 kg (178-198 lb)*
	*depending on configuration	

OPTIONS

- High performance radiography (12,500 mAs and 63-s irradiation time)
- Auxiliary power supplies 24 VDC or 24 VDC/AC
- Integrated dual speed starter
- Solid state ion chamber interface
- Photodiode ion chamber fluoro board
- Expansion boards (Relay, I/O..., etc)
- High power fluoro (140 kV @ 20 mA)
- High performance pulsed fluoroscopy
- Two-tube option (with Cabinet)
- DAP interface
- Decorative cabinet
- Handswitch
- Custom pedestal stand



REGULATORY & QUALITY APPROVALS



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