

# E-SERIES E110D-i



## E-GUN MODULATOR UP TO 30 KW

ScandiNova's E110D-i is a compact solid-state pulse Modulator designed for system integration. The Modulator is designed to operate all kinds of diode E-guns with a peak power up to 30 kW and a voltage level up to 30 kV. To facilitate system integration, the Modulator has a split design with a Tank Unit and a Pulse Unit, and can be placed in a very compact enclosure. The Modulator is well protected against any stress from the E-gun. The E100D-i is available with single or dual energy. The dual-energy model is for applications where there is a need to switch between two different energy levels.

All interlocks and essential diagnostics are fully integrated, and ScandiNova's modern control system offers both a user-friendly interface and a capability for both manual and automatic pulse shape modification. The pulse length, amplitude and repetition rate can all be changed.

Different levels of service and support programmes are available.

DUAL-ENERGY

COMPACT

UP TO 30 KW PEAK  
POWER

FULLY COMPUTERIZED

MINIMIZED  
CONSUMABLES

## THE E-SERIES

ScandiNova's E-series contains a range of E-gun pulse modulators with high reliability and performance, a compact design and low energy consumption.

Our E-gun pulse modulators are used for driving E-guns in a wide range of linac applications including high energy physics, radiation therapy, cargo inspection, industrial X-ray and sterilization.

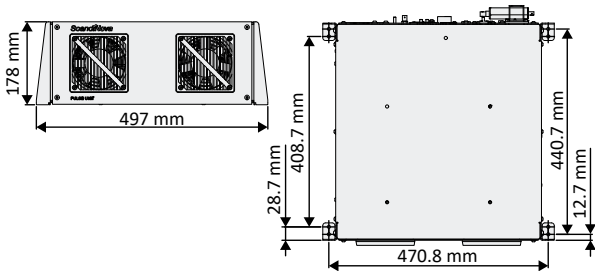


SPECIFICATIONS	UNIT	VALUE	NOTES
Peak power to E-gun	kW	0-30	Dual energy option available
Average power to E-gun	W	0-40	Dual energy option available
Operational voltage range	kV	0-30	Higher voltage on request
Operational current range	A	0-1	Higher current on request
Pulse length, top	µs	0.5-4	Longer pulse length on request
Pulse repetition rate	Hz	0-400	According to external trig generator Single shot operation possible Higher frequency option available
Cooling	-	Air	

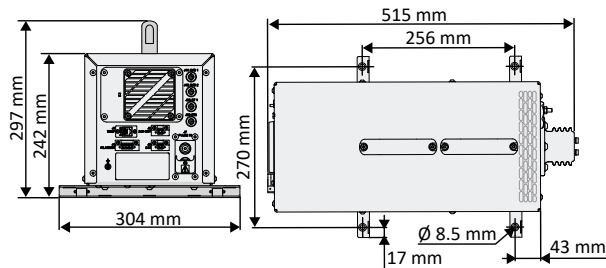
INTERFACE	CONNECTOR	DEFAULT	OPTION
Mains power, single-phase	C14	95-255 VAC, 50/60 Hz	
Control interface	RJ45	Modbus TCP	
Trig input	BNC	Electrical	Optical
Diagnostics	BNC	Pulse voltage & current signals	

SIZE AND WEIGHT	UNIT	VALUE
Weight, Pulse Unit	kg	16
Weight, Tank Unit (incl. oil)	kg	29

For more information, visit [www.scandinovasystems.com/E110D-i](http://www.scandinovasystems.com/E110D-i)



Pulse Unit



Tank Unit

#### The Standard Modulator Includes

- Filament power supply
- Control system
- Control via Modbus TCP
- Pulse sensors
- Internal trig generator
- Digitizer
- Cable kit between Pulse Unit and Tank Unit, standard length 2 m, option up to 10 m
- HV pulse cable, 0.5m
- Over temperature protection
- Factory acceptance test certificate
- Manuals

#### Services

- Training in handling, operation and maintenance
- Shipping
- Installation and start-up
- Service contract

Contact ScandiNova for any requirements not covered by this specification.

Information contained in this document is subject to change without notice.

COMPANY WITH  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 9001 • ISO 14001

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**ScandiNova**  
Excellence in pulsed power