

PG-SERIES PG050



PULSE GENERATOR FOR PEF RESEARCH

The PG050 is designed for research and testing of PEF technology. The Pulse Generator provides electric pulses of up to 6.2 MW peak power, used for electroporation, with unparalleled performance. Together with our PEF chamber, it can easily be adapted to your specific needs regarding type of food, size and pulse specifications.

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

Different levels of service and support programmes are available.

COMPACT

UP TO 6.2 MW PEAK POWER

FULLY COMPUTERIZED

MINIMIZED CONSUMABLES

THE PG-SERIES

ScandiNova's PG-series contains both standard pulse generators and customized solutions that handle a wide range of needs all the way up to 100 kW average power.

The products within the PG-series have a very resistant casing to withstand demanding industrial applications which make them a perfect choice for Pulsed Electric Field (PEF) generation in food processing. They are perfectly suited for research needs where mid-range pulse generators are needed.

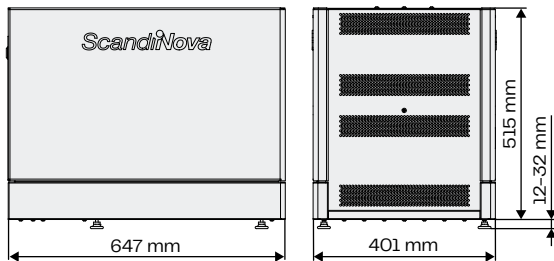
SPECIFICATIONS	UNIT	VALUE*	NOTES
Peak power	MW	6.2	Maximum. Approximately 40 J per pulse.
Average power	kW	8	Maximum
Pulse voltage	kV	52	Maximum
Pulse current	A	120	Maximum
Pulse length, top	µs	5	Limited by max average power
Pulse repetition rate	Hz	500	Limited by max average power
Cooling	l/min	8	18-40 °C, non-condensing

* All maximum values cannot be reached simultaneously.

INTERFACE	CONNECTOR	DEFAULT	OPTION
Mains power, three-phase	Terminal block (4-wire)	400±10 % VAC, 50/60 Hz	208/380/480 VAC
Mains power, single-phase	C20	230±10 % VAC, 50/60 Hz	115 VAC
Hardwired interface	D-sub 15-pin		
Communication interface	RJ45	Modbus TCP	
Water cooling interface	12 mm	Legris Push-in	Swagelock
HV connector	CA11		
Diagnostics	BNC	Pulse voltage & current signals	

SIZE AND WEIGHT	UNIT	VALUE
Weight (incl. oil)	kg	140

For more information, visit www.scandinovasystems.com/PG050



Contact ScandiNova for any requirements not covered by this specification.

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

The Standard Pulse Generator

Includes

- Control system
- Control via Modbus TCP
- Pulse sensors
- HV pulse cable
- Internal trig generator
- Factory acceptance test certificate
- Manuals

Options

- Pulse diagnostics
- Digitizer
- Enhanced PRF range, up to 1000 Hz
- Extended pulse length, top
- PEF chamber

Services

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

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

HEADQUARTERS

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ScandiNova
Excellence in pulsed power