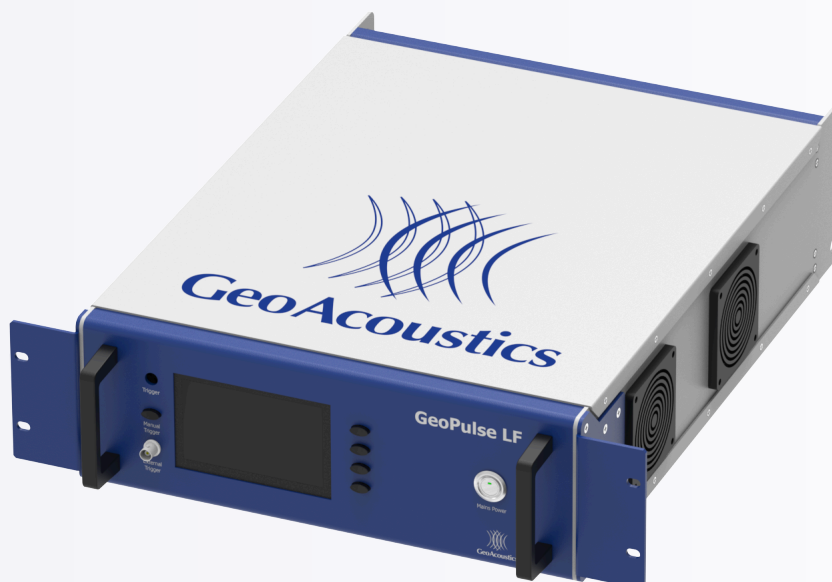


GeoPulse LF 101

Low voltage boomer system for safe marine seismic survey



OVERVIEW

GeoPulse LF 101 is a low voltage boomer system developed as a safe and economic solution for marine seismic survey.

Building on a field-proven technology platform, the system retains the functionality of traditional boomers while introducing key updates and delivering sector leading data quality. With an underwater energy discharge system working from 1000 V, it is significantly safer than conventional systems running at up to 4000 V. The compact 11 kg energy source, 2 kVA mains input and light weight cable support efficient mob and de-mob and are small vessel friendly.

GeoPulse LF 101 is a 100/50 Joules system, producing up to 6 pulses per second. This achieves an optimal balance between resolution and water depth for high-precision shallow-water engineering surveys. A 200 Joules variant is in development and expected to be available during Q2 2026.

KEY FEATURES

- Low voltage boomer system
- Collect accurate data safely
- Compact, portable design
- Suitable for small vessels
- Lightweight cable
- Easy mob and de-mob

APPLICATIONS

- Buried object detection
- Cable route surveys
- Dredging surveys
- Engineering surveys
- Geological surveys
- Pipeline tracking

GeoPulse LF 101 Technical Specifications

Topside

Dimensions	397* x 133 x 568 mm (with carry handles)
Weight	11 kg
Input voltage	100 - 240Vac 50/60 Hz
Output voltage	1000 V dc
Power consumption	2400W max 1ph
Trigger voltage	+ve3.3V-12V

Cable

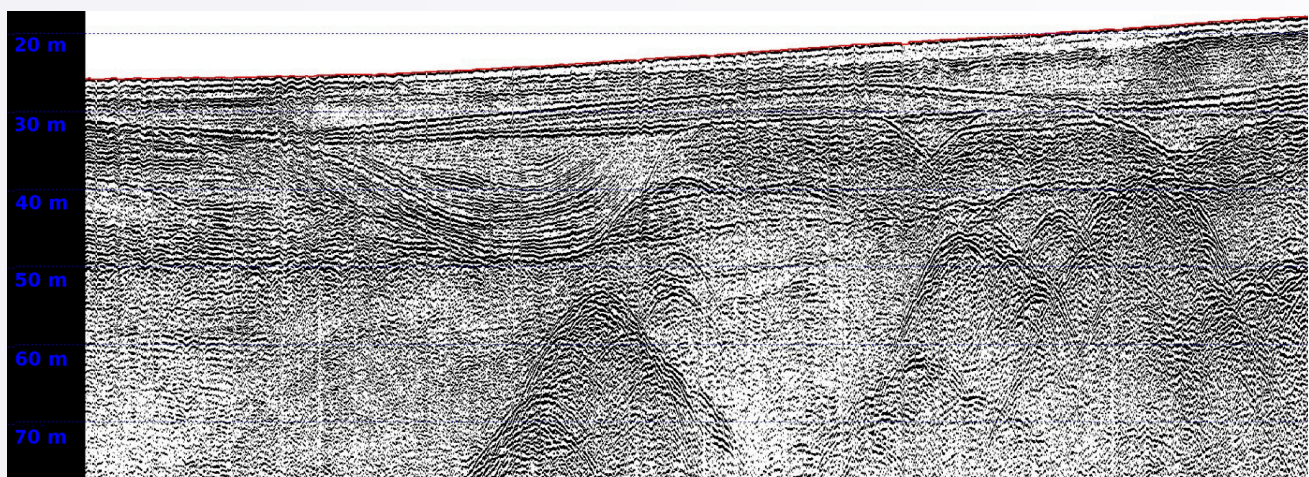
Standard length	60m (other length available)
Weight in air	466.6g/m
Weight in water	Almost Buoyancy
Diameter	35mm
Composition	Triple insulated
Strain member	Aramid weave
Cable breaking load	500kg

Catamaran

Catamaran assembly dimensions	1620 x 1225 x 435 mm
Plate dimensions	Transducer 390 x 390 x 60 mm. Active face dia. 300 mm
Flotation	Adjustable height. Folding frame and easily removable floats for freight and storage
Weight in air	49.5 Kg
Energy discharge per pulse	50 or 100 Joules
Acoustic output @50 Joules	193.3 dB re 1uPa@1m
Acoustic output @100 Joules	199.6 dB re 1uPa@1m
Resolution better than	20cm
Firing rate	Up to 6 times per second @100 Joules & @50 Joules
Frame assembly	25 mm dia. tube 316 ss

*Width including 19" rack mounting = 489 mm

Specifications subject to change without notice. E&OE



Soft Holocene silts and clays overlying unevenly weathered Mesozoic rock. GeoPulse LF 100 Joules, October 2025.