

CSP-L Seismic Energy Source



The **CSP-L** is a seismic energy source for high resolution boomer sub-bottom profiling, primarily intended for use as part of the Inshore Boomer System.

Available as a 50 Joule or 100 Joule unit, the CSP-L uses minimal generator current, and is ideal for use on small vessels undertaking coastal survey work .

Key Features

- Operates from the smallest possible generator
- Proprietary pulse shaping circuitry for high resolution data
- Additional safety/protection features
- All settings externally selectable
- LED fault indicators
- High current and voltage solid state (semi-conductor) discharge method
- Meets EC emissions regulations enabling interference-free field use
- Supplied in robust transit case, with HV junction box, mains lead and HV connector plug

Technical Specification

PHYSICAL

Size	Transit Case (4U) with cover in place and handles flat: 24cm(H) x 54cm(W) x 44.5cm(D)
Weight	CSP-L, case and cover: 18.5kg

ELECTRICAL SPECIFICATION

Mains Input	110-240Vac (auto) 45-65Hz@1.0kVA (max) single phase. 3 pin connector
Voltage Output	3600 Vdc, 4 pin interlocked connector Solid state semi-conductor discharge method
Output Energy	CSP-L50, 50 Joules CSP-L100, 100 Joules
Charging Rate	500J/second for continuous operation at 0-45°C ambient

CSP-L Technical Specification continued...

Capacitance	CSP-L50, 8 μ F at 10 ⁸ shot life CSP-L100, 16 μ F at 10 ⁸ shot life
Trigger	+ve key opto isolated or isolated closure set by front panel switch BNC connector on front panel
Repetition rate	Up to 8pps at 50 Joules, up to 4pps at 100J Limited by charge rate, energy level and sound source rating
Earth	M8 stainless steel stud on front panel

SAFETY FEATURES

- Main electronic control circuits and secondary layer of safety circuitry
- Specially designed HV connector with interlock
- High speed dump resistors for high voltage components
- Capacitor bleed resistors
- Open circuit shutdown
- Timer shutdown
- Output current monitor
- Over temperature shut-down
- Cover and connector interlocks

The unit's internal design has a modular construction for ease of servicing and capacitor replacement. However, for safety reasons, only Applied Acoustics trained engineers should attempt a repair.

COMPATIBLE SOUND SOURCES

CSP-L50	AA201, AA251 and AA301 Boomer plates
CSP-L100	AA201, AA251 and AA301 Boomer plates



Due to continual product improvement, specification information may be subject to change without notice.
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