

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 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

Capacitance CSP-L50, 8µF at 10⁸ shot life
CSP-L100, 16µF at 10⁸ shot life

CSP-L Technical Specification continued...

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.
CSP-L Seismic Energy Source/Dec 2013
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