



APPLIED ACOUSTICS

Underwater Technology



: Technical Specification

CSP-P Portable, Seismic Energy Source

The CSP-P replaces the CSP-300 Portable. Upgraded, the CSP-P now incorporates the Dual-voltage technology of the CSP-D for greater boomer penetration and several new internal features for better performance and fault tolerance.

Believed to be the smallest, lightest 350 Joule power source in the world, the CSP-P is intended primarily as a boomer power supply but can also be used with small sparkers.



CSP-P

Key Features

- : Cutting edge power supply technology evolved from years of field use.
- : Contains proprietary Variable Input Power Circuitry (AVIP) enabling slow start to minimise marine mammal disturbance and operation from the smallest possible generator.
- : Reliability and security with global after sales service and support from the world's leading seismic power source manufacturer.
- : Contains proprietary pulse shaping circuitry for optimisation of high resolution data.
- : Meets EC emissions regulations enabling interference-free field and laboratory use.
- : Virtually silent energy source operation.
- : All settings externally selectable including voltage output power increments of 50 to 350 Joules.
- : New Higher current and voltage Solid state (semiconductor) discharge method.
- : Supplied with robust transit case, H.V. junction box, mains lead and H.V. connector plug.

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PHYSICAL SPECIFICATION

Dimensions	Transit case (4U) with cover in place and handles flat: H 29cm x W 56cm x D 56cm
Weight	CSP-P, case and cover: 35kg

ELECTRICAL SPECIFICATION

Mains Input	200 - 240 VAC. 115V Units available to order. 45-65Hz @ 2.0kVA, 3 pin connector. Contains AVIP soft start circuitry to reduce generator requirements and minimize marine mammal disturbance.
Voltage Output	2500 - 3900 volts DC, 4 pin interlocked connector. New higher rated discharge semi-conductor.
Output Energy	Easy switch selectable in increments of 50, 100, 150, 200, 300 & 350 Joules.
Charging Rate	1050J/second for continuous operation at 0 - 50°C ambient or 1500J/second for short duration work
Capacitance	48µf , 10 ⁸ shot life
Trigger	+ve key opto isolated or closure set by front panel switch. BNC connector on front panel and remote
Repetition Rate	6 pps maximum. Up to 3pps at 350J
Earth	M8 stainless steel stud on front panel
Internal Design	A Modular approach allows for easy servicing and capacitor replacement (However, for safety reasons, only factory trained technicians should attempt a repair)

SAFETY FEATURES

Main electronic control circuits and secondary layer of safety circuitry.
Specially designed HV connector.
High speed dump resistors for internal high voltage discharge when unit switched off or under fault condition.
Capacitor bleed resistors.
Open circuit shutdown.
Over-current shut-down.
Cover and connector interlocks.
Fault indicators for over temperature, low input voltage, capacitor fault and load fault.
Required 30 second safety time-out.
Remote control available for triggering and operation.

COMPATIBILITY SOUND SOURCES

AA200 & AA300 Boomer Plate.
Squid 500 Sparker.



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