



CSP-P Seismic Energy Source



The **CSP-P** is a small, light 350 Joule power source intended primarily as a boomer power supply but it can be used with small sparkers.

Recently upgraded, the CSP-P now incorporates dual-voltage technology that allows the operator to tune the sound source to a particular application for improved data quality.

Key Features

- Incorporates dual-voltage technology for exceptional versatility
- Variable Input Power Circuitry for 'soft start'
- 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 (HVJ2000), mains lead and HV connector plug

Technical Specification

PHYSICAL

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

ELECTRICAL SPECIFICATION

Mains Input 110 or 240Vac (fixed) 45-65Hz@2.0kVA single phase. 3 pin connector
Variable Input Power Circuitry (AVIP) 'soft start' circuitry

Voltage Output 2500 to 3950 Vdc, 4 pin interlocked connector
Solid state semi-conductor discharge method

Output Energy Easy switch selectable in increments
50,100,150,200,300 and 350 Joules



CSP-P Technical Specification

Charging Rate	1500J/second for continuous operation at 0-45°C ambient
Capacitance	48µF at 10 ⁸ shot life
Trigger	+ve key opto isolated or isolated closure set by front panel switch BNC connector on front panel and remote box (optional)
Repetition rate	6pps max 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 and shutdown
- Over temperature shut-down
- Cover and connector interlocks
- HV fault indicator for internal temperature, low input voltage or capacitor fault
- Remote control available for triggering and operation

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

AA201, AA251 and AA301 Boomer plates
Squid 501 Sparker



Due to continual product improvement, specification information may be subject to change without notice.
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Applied Acoustic Engineering Ltd
Marine House, Marine Park
Gapton Hall Road
Great Yarmouth NR31 0NB
United Kingdom

T +44(0)1493 440355
F +44(0)1493 440720
E general@appliedacoustics.com
W www.appliedacoustics.com