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.

Technical Specification

**PHYSICAL**

<table>
<thead>
<tr>
<th>Size</th>
<th>Transit Case (4U) with cover in place and handles flat: 29cm(H) x 56cm(W) x 56cm(D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>CSP-P, case and cover: 35kg</td>
</tr>
</tbody>
</table>

**ELECTRICAL SPECIFICATION**

<table>
<thead>
<tr>
<th>Mains Input</th>
<th>110 or 240Vac (fixed) <a href="mailto:45-65Hz@2.0kVA">45-65Hz@2.0kVA</a> single phase. 3 pin connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable Input Power</td>
<td>Variable Input Power Circuitry (AVIP) ‘soft start’ circuitry</td>
</tr>
<tr>
<td>Voltage Output</td>
<td>2500 to 3950 Vdc, 4 pin interlocked connector</td>
</tr>
<tr>
<td>Output Energy</td>
<td>Easy switch selectable in increments 50,100,150,200,300 and 350 Joules</td>
</tr>
<tr>
<td>Charging Rate</td>
<td>1500J/second for continuous operation at 0-45°C ambient</td>
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</table>
CSP-P Technical Specification continued...

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