The CSP-Dv is built on the proven high voltage technology of the industry leading CSP range of power supplies. Incorporating microprocessor control and configuration for greater configuration flexibility and reliability whilst retaining a fail-safe logic design.

The CSP-Dv adds to the standard safety systems and operational functions found across the entire range of CSP energy sources.

The CSP-Dv is compatible with the Applied Acoustics’ S-Boom, single plate boomer and Squid sparker systems.

**Technical Specification**

**PHYSICAL**

<table>
<thead>
<tr>
<th>Size</th>
<th>Transit Case (7U) with cover in place and handles flat: 50cm(H) x 58cm(W) x 74cm(D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>CSP-Dv700, case and cover: 60.5kg</td>
</tr>
<tr>
<td></td>
<td>CSP-Dv2400, case and cover: 63.5kg</td>
</tr>
<tr>
<td></td>
<td>CSP-Dv1200, case and cover: 61.5kg</td>
</tr>
</tbody>
</table>

**ELECTRICAL SPECIFICATION**

<table>
<thead>
<tr>
<th>Mains Input</th>
<th>240Vac 45-65Hz@ 5.0kVA single phase. 3 pin connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable Input Power Circuitry (AVIP) ‘soft start’ circuitry</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage Output</th>
<th>2500 to 3950Vdc, 4 pin interlocked connector</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Solid state semi-conductor discharge method</td>
</tr>
</tbody>
</table>
CSP-Dv Technical Specification

Output Energy | Easy switch selectable in increments
---|---
CSP-Dv700 | 50,100,150,200,250,300,350,400,500,600,700 Joules
CSP-Dv1200 | 50,100,150,200,250,300,350,400,450,500,550,600,700,800,900,1000,1100,1200 Joules
CSP-Dv2400 | 50,100,150,200,250,300,400,500,600,700,750,800,900,1000,1200,1500,1750,2000,2250,2400 Joules

Charging Rate | 1500J/second for continuous operation at 0-45°C

Capacitance | CSP-Dv700 112μF, 10⁸ shot life
| CSP-Dv1200 208μF, 10⁸ shot life
| CSP-Dv2400 304μF, 10⁸ shot life

Trigger | User configured: External: +ve key (5-25VDC), -ve key or isolated closure
| Internal: +ve key (5-25VDC), -ve key
| Opto Isolated BNC connector on front panel and remote box (optional)

Repetition rate | User configured: External: 6pps maximum
| Internal: 166ms to 60seconds
| Limited by charge rate, energy level and sound source rating

Earth | M8 stainless steel stud on front panel

SAFETY FEATURES

Main microprocessor control circuits with fail-safe layer of logic circuitry
LCD display with system status information, configuration
Specially designed HV connector with interlock
High speed dump resistors for high voltage components
Capacitor bleed resistors
HV output open circuit shutdown
Trigger monitoring with time out and over clock shutdown
HV output current monitor and shutdown
Supply Voltage monitoring and shutdown
High Voltage monitoring
Over temperature shut-down
Cover and connector interlocks
Diagnostic log download for improved support
Intelligent remote control available to configure, trigger and operator remotely

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-Dv 700, CSP-Dv1200 | Squid 501, Squid 2000, Delta Spark
CSP-Dv2400 | AA201, AA251 and AA301 Boomer plates
| S-Boom System

Due to continual product improvement, specification information may be subject to change without notice.
CSP-Dv Seismic Energy Source/Feb 2016
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