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CSP-Dv Seismic Energy Source



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.

Key Features

- Microprocessor configuration and control.
- Intuitive user interface, with LCD display and LED indicators.
- Enhanced operator system feedback
- User programmable 'soft start' •
- Master / Slave Key Support •
- Additional safety/protection features
- Programmable voltage technology allows • operator tuning to suit application
- All settings externally selectable •
- High current and voltage solid state (semiconductor) discharge method
- Debug log and diagnostics. •
- Meets EC emissions regulations enabling interference-free field use
- Supplied in robust transit case, with HV junction box (HVJ3001) and mains lead.

Technical Specification

PHYSICAL

| Size | Transit Case (7U) with cover in place and ha | andles flat: 50cm(H) x 58cm(W) x 74cm(D) |
|--------|--|--|
| Weight | CSP-Dv700, case and cover: 60.5kg | CSP-Dv1200, case and cover: 61.5kg |
| | CSP-Dv2400, case and cover: 63.5kg | |

ELECTRICAL SPECIFICATION

Mains Input 240VAC 45-65Hz@ 5.0kVA single phase. 3 pin connector Variable Input Power Circuitry (AVIP) 'soft start' circuitry

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



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, 900,1000,1250,1500,1750,2000,2250,2400 Joules | |
| Charging Rate | 1500J/second for continuous operation at 0-45°C | | |
| Capacitance | CSP-Dv700 112μF, 10 ⁸ shot life CSP-Dv1200 208μF, 10 ⁸ shot life CSP-Dv2400 304μF, 10 ⁸ shot life | | |
| Trigger | | : External: +ve key (5-25VDC), -ve key or isolated closure Internal: +ve key (5-25VDC), -ve key NC 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 stee | el stud on front panel | |

Output Energy Easy switch selectable in increments

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 shutdown Cover and connector interlocks Diagnostic log download for improved support Intelligent remote control available to configure, trigger and operate 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-Dv700, CSP-Dv1200 | |
|-----------------------|--|
| CSP-Dv2400 | |

Squid 501, Squid 2000, Delta Sparker 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 @Applied Acoustic Engineering Ltd.



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