



CSP-Dv Seismic Energy Source



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 (semi-conductor) 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.**

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

Size	Transit Case (7U) with cover in place and handles 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	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.
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