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# **CSP-D** Seismic Energy Source



**The CSP-D** is a seismic energy source for boomer and sparker applications in three variants, the CSP-D700, CSP-D1200 and CSP-D2400. Each unit has the same chassis and 1500J/second HV engine.

The CSP-D 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 (7U) with cover in place and handles flat: 50cm(H) x 58cm(W) x 74cm(D)
Weight	CSP-D700, case and cover: 60.5kg
	CSP-D1200, case and cover: 61.5kg
	CSP-D2400, case and cover: 63.5kg

#### **ELECTRICAL SPECIFICATION**

Mains Input	240Vac 45-65Hz@3.0kVA single phase. 3 pin conner	ctor
	Variable Input Power Circuitry (AVIP) 'soft start' circu	itry

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



## **CSP-D Technical Specification continued...**

Output Energy	Easy switch seled CSP-D700	ctable in increments 50,100,150,200,250,300,350,400,500,600,700 Joules
	CSP-D1200	50,100,150,200,250,300,350,400,450,500,550,600, 700,800,900,1000,1100,1200 Joules
	CSP-D2400	50,100,150,200,300,400,500,600,700,750,800,900, 1000,1250,1500,1750,2000,2250,2400 Joules
Charging Rate	1500J/second fo	r continuous operation at 0-45°C ambient
Capacitance	CSP-D700 CSP-D1200 CSP-D2400	112μF at 10 <sup>8</sup> shot life 208μF at 10 <sup>8</sup> shot life 304μF at 10 <sup>8</sup> 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 charg	e rate, energy level and sound source rating
Earth	M8 stainless stee	el 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

CSP-D700	AA201, AA251, AA301 Boomer plates, Squid 501 Sparker
CSP-D1200	AA201, AA251, AA301 Boomer plates, Squid 501 and Squid 2000 Sparkers
CSP-D2400	AA201, AA251, AA301 Boomer plates, Squid 501, Squid 2000 and Delta Sparkers



Due to continual product improvement, specification information may be subject to change without notice. CSP-D Seismic Energy Source/June 2015 ©Applied Acoustic Engineering Ltd.



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