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CSP-N Seismic Energy Source



The CSP-N seismic energy source is the driving force behind Applied Acoustics' Dura-Spark range of sound sources that have extremely hard wearing electrode sparker tips. This durability is a consequence of the CSP's reverse polarity high voltage charger and unique proprietary thyristor switching.

Featuring all of the standard safety systems and operational functions found across the entire range of CSP energy sources, the CSP-N is also suitable for use with the Applied Acoustics' S-Boom and single plate boomer systems.

Key Features

- Unique dual negative voltage output
- Variable Input Power Circuitry for 'soft start'
- 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
- Dual voltage technology allows operator tuning to suit application
- Supplied in robust transit case, with HV junction box (HVJ3001), mains lead and **HV** connector plug

Technical Specification

PHYSICAL

Transit Case (7U) with cover in place and handles flat: 50cm(H) x 58cm(W) x 74cm(D) Size

Weight CSP-N1200, case and cover: 60kg

CSP-N2400, case and cover: 63.5kg

ELECTRICAL SPECIFICATION

Mains Input 45-65Hz@4.0kVA 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-N Technical Specification continued...

Output Energy Easy switch selectable in increments

CSP-N1200 50,100,150,200,250,300,350,400,450,500,550,600

700,800,900,1000,1100,1200 Joules

CSP-N2400 50,100,150,200,250,300,400,500,600,750, 800

900,1000,1250,1500,1750,2000,2250,2400 Joules

Charging Rate 2000J/second for continuous operation at 0-45°C

Capacitance CSP-N1200 208μF, 108 shot life

CSP-N2400 $304\mu F$, 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 maximum

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

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-N1200 Dura-Spark 240, 400

AA201, AA251 and AA301 Boomer plates

S-Boom System

CSP-N2400 Dura-Spark 240, 400

AA201, AA251 and AA301 Boomer plates

S-Boom System



Due to continual product improvement, specification information may be subject to change without notice. CSP-N1200 Seismic Energy Source/November 2014 @Applied Acoustic Engineering Ltd.





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