APPLIED ACOUSTICS
Underwater Technology
An AAE Technologies Group Company

Applied Acoustic Engineering Ltd
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CSP-NP Seismic Energy Source

The CSP-NP is a compact, lightweight seismic power supply. The CSP-NP is compatible with the Applied Acoustics' Boomer and Dura-Spark L80 and L200 sound sources.

Recently upgraded, the CSP-NP incorporates reverse voltage technology that allows compatibility with the Dura Spark compact high resolution sound sources.

The CSP-NP is ideal for small vessel coastal geophysical surveys.

Key Features

- **Boomer and Dura-Spark compatibility**
- **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 (4U) with cover in place and handles flat: 29cm(H) x 56cm(W) x 56cm(D)
Weight	CSP-NP, case and cover: 35kg

ELECTRICAL SPECIFICATION

Mains Input	240VAC 50Hz@3.5kVA single phase. 3 pin connector Variable Input Power Circuitry (AVIP) 'soft start' circuitry
Voltage Output	2500 to 3950 VDC, 4 pin interlocked connector Solid state semi-conductor discharge method
Output Energy	Easy switch selectable in increments 50,100,150,200,300 and 350 Joules

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CSP-NP Technical Specification

Charging Rate	2000J/second for continuous operation at 0-45°C ambient
Capacitance	48µF at 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 max 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 shutdown
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

Dura-Spark L80 and L200 sparkers
AA251 and AA301 boomer plates

Registration No. QU180081a
ISO9001:2015

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