

S-Boom System



The **S-Boom System** is a high power, high resolution repeatable sound source that can be operated at fast repetition rates.

The transmitted energy is focused by the array geometry to improve the directivity and beam pattern, giving an improvement over traditional sound sources.

Key Features

- Deep penetration seismic surveys with ultra high resolution data quality, better than 0.25m
- Three AA252 boomer plates provide a single, focused beam pattern
- Deployed with fast-charging CSP-N1200 for optimum results
- Maximum energy output of 1000J per pulse, firing at 3 pulses per second
- Can be used with single and multi-channel streamer hydrophone arrays
- Perfect UHR package for research, mapping and construction geological surveys.

Technical Specification

S-BOOM SYSTEM COMPONENTS

Catamaran	CAT303
Boomer plates x3	AA252
HV Cable	HVC3000
HV Junction box	HVJ3000

Powered from a CSP-N1200 seismic energy source

PHYSICAL SPECIFICATION

CAT300 Catamaran

Dimensions	1700mm (L) x 490mm (H) x 660mm (W) frame/876mm (W) including floats
Weight	60kg

AA252 Boomer plate (each)

Length	380mm
Width	380mm
Weight	18kg (air), 10kg (water)
Connector type	RMK 1/0 complete with locking collar

S-Boom System Technical Specification continued...

HVC3000 Cable

Breaking strain	2000kg
Standard length	75m

ELECTRICAL INPUT

Recommended energy	700 – 1000J per shot
Maximum energy	1000J per shot
Average energy	3000J/second
Operating Voltage	3600 to 4000Vdc

Thermal interlock protection interfaced to energy source

SOUND OUTPUT

Source level	Typically 222dB re 1 μ Pa at 2 metres with 1000J
Pulse length	300 to 500 μ s depending on energy applied
Reverberation	<10% of initial pulse

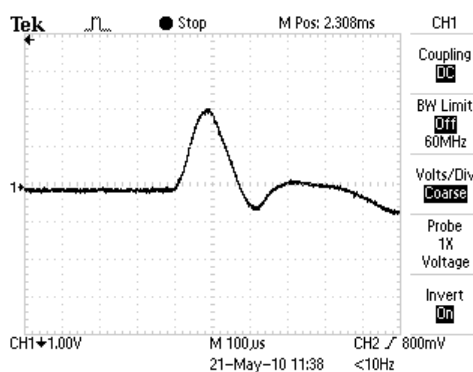
COMPATIBLE ENERGY SOURCE

S-Boom System	CSP-N1200 (Primary source) CSP-D, CSP-S1250, CSP-S
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COMPATIBLE HV CABLE

S-Boom System	HVC 3000 Standard 75m RMK 1/0 connectors complete with locking collars
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TYPICAL PULSE SIGNATURE AT 1000J



Due to continual product improvement, specification information may be subject to change without notice.
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