



S-Boom System



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-Nv 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.

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.

Technical Specification

S-BOOM SYSTEM COMPONENTS

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

Powered from a CSP-Nv seismic energy source

PHYSICAL SPECIFICATION

CAT303 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

S-Boom System Technical Specification

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

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 1 metre with 1000J
Pulse length 300 to 500 μ s depending on energy applied
Reverberation <10% of initial pulse

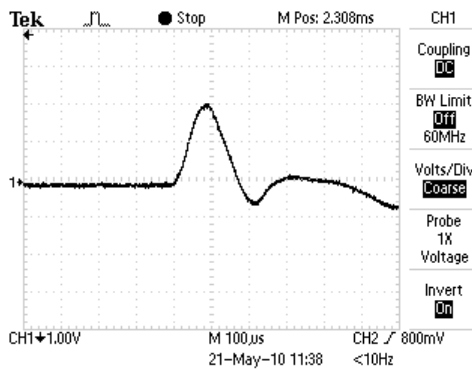
COMPATIBLE ENERGY SOURCE

S-Boom System CSP-Nv (Primary source)
CSP-Dv, CSP-S1250, CSP-S

COMPATIBLE HV CABLE

S-Boom System HVC 3000
Standard 75m
RMK 1/0 connectors complete with locking collars

TYPICAL PULSE SIGNATURE AT 1000J



APPLIED ACOUSTICS
Underwater Technology
An AAE Technologies Group Company

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