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AA251, AA301 Boomer Seismic Sound Source



Key features

- Stable pulse shape clarity with minimum reverberation
- Rugged mechanical design with weight kept to a minimum
- Supplied as individual product, or with a catamaran
- Supplied with RMK connectors and locking collars as standard
- AA251 forms part of the Inshore Boomer System, ideal for coastal surveys
- AA301 ideal for nearshore and shallow water surveys (up to 120m) depending on geology

AA251 and AA301 Overview

The AA251 and AA301 boomer plates are seismic sound sources that produce a sharp repeatable pulse from a floating position on the sea surface.

The AA251, deployed on either a robust CAT100 or CAT200 catamaran, is ideal for inshore surveys from small craft.

The AA301 is designed for higher power applications and can also be used as a variable frequency boomer when combined with a CSP energy source.

Technical Specification

PHYSICAL - AA251 BOOMER PLATE

Size	380 x 380mm
Weight air/water	18kg/10kg
Fixing centres	315mm2
Connector	RMK 1/0

PHYSICAL – AA301 BOOMER PLATE

Size	620 x 520mm
Weight air/water	25kg/14kg
Fixing centres	485mm x 440mm
Connector	RMK 1/0

ELECTRICAL INPUT

Recommended energy	AA251: 50 – 200J/shot AA301: 100 – 300J/shot
Maximum energy	AA251: 300J/shot AA301: 350J/shot
Average energy	AA251: 600J/second AA301: 1000J/second
Operating voltage	3600 to 4000Vdc

SOUND OUTPUT

Source level	AA251 Typically 212dB re 1µPa at 1 metre with 200J AA301 Typically 215dB re 1µPa at 1 metre with 300J
Pulse length	AA251 120/150/180µs at 50/100/200J AA301 200µs depending on energy setting of CSP
Reverberation	AA251: <10% of initial pulse AA301: <10% of initial pulse

COMPATIBLE ENERGY SOURCES

AA251	CSP-NP, CSP-Nv1200, CSP-Nv2400
AA301	CSP-NP, CSP-Nv1200, CSP-Nv2400

COMPATIBLE CATAMARAN

AA251	CAT 100: 940 (L) x 740 (W) x 500 (H) mm CAT 200: 1280 (L) x 915 (W) x 525 (H) mm
AA301	CAT 200: 1280 (L) x 915 (W) x 525 (H) mm CAT 300: 1700 (L) x 660 (W) 490 (H) mm

COMPATIBLE HV CABLE

AA251 and AA301

HVC 2000 Standard length 75m RMK 1/0 connectors complete with locking collars



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