

AA252, AA352 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
- AA252 forms part of the Inshore Boomer System, ideal for coastal surveys
- AA352 ideal for nearshore and shallow water surveys (up to 120 m) depending on geology

Applications

- High and Ultra-High Resolution coastal geophysical surveys
- Single and multi-channel acquisition
- Suitable for freshwater or low salinity surveys
- Water depths of 5 to 1000 m

AA252 and AA352 Overview

The AA252 and AA352 boomer plates are seismic sound sources that produce a sharp repeatable pulse from a floating position on the sea surface.

The AA252, deployed on either a CAT100 or CAT200 catamaran, is ideal for inshore surveys from small craft.

The AA352 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 – AA252

Size	380 x 380 mm
Weight air/water	18 kg / 10 kg
Fixing centers	315 mm ²
Connector	RMK 1/0

PHYSICAL – AA352

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

ELECTRICAL INPUT – AA252

Recommended energy	50 – 200 J / shot
Maximum energy	300 J / shot
Average energy	600 J / second
Operating voltage	3600 to 4000 V DC
Power supply	CSP-NP, CSP-Nv1200, CSP-Nv2400

ELECTRICAL INPUT – AA352

Recommended energy	100 – 300 J / shot
Maximum energy	350 J / shot
Average energy	600 J / second
Operating voltage	3600 to 4000 V DC

SOUND OUTPUT – AA252

Source level	Typically 212 dB re 1 µPa at 1 metre with 200 J
Pulse length	120 / 150 / 180 µs at 50 / 100 / 200 J
Reverberation	<10% of initial pulse

SOUND OUTPUT – AA352

Source level	Typically 215 dB re 1µPa at 1 metre with 300 J
Pulse length	200 µs depending on energy setting of CSP
Reverberation	<10% of initial pulse

COMPATIBLE HV CABLE

AA252 and AA352	HVC 2000 Standard length 75 m RMK 1/0 connectors complete with locking collars
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COMPATIBLE CATAMARAN

AA252	CAT 100: 940 (L) x 740 (W) x 500 (H) mm CAT 200: 1280 (L) x 915 (W) x 525 (H) mm
AA352	CAT 200: 1280 (L) x 915 (W) x 525 (H) mm CAT 300: 1700 (L) x 660 (W) 490 (H) mm

AA352 TYPICAL PULSE SIGNATURE AT 300J

