AA252, 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
- AA252 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

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 1000m

AA252 and AA301 Overview

The AA252 and AA301 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 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 – AA252**
- **Size**: 380 x 380mm
- **Weight air/water**: 18kg/10kg
- **Fixing centres**: 315mm2

**ELECTRICAL INPUT – AA252**
- **Recommended energy**: 50 – 200J/shot
- **Maximum energy**: 300J/shot
- **Average energy**: 600J/second
- **Operating voltage**: 3600 to 4000Vdc
- **Power supply**: CSP-NP, CSP-Nv1200, CSP-Nv2400
- **Operating voltage**: 3600 to 4000Vdc

**SOUND OUTPUT – AA252**
- **Source level**: Typically 212dB re 1μPa at 1 metre with 200μs at 50/100/200J
- **Pulse length**: 120/150/180 μs at 50/100/200J
- **Reverberation**: <10% of initial pulse

**COMPATIBLE HV CABLE**
- **AA252 and AA301**
  - HVC 2000
  - Standard length 75m
  - RMK 1/0 connectors complete with locking collars

**AA301**
- **Size**: 620 x 520mm
- **Weight air/water**: 25kg/14kg
- **Fixing centres**: 485mm x 440mm

**Recommended energy**
- **Maximum energy**: 350J/shot
- **Average energy**: 600J/second
- **Operating voltage**: 3600 to 4000Vdc
- **Power supply**: CSP-NP, CSP-Nv1200, CSP-Nv2400
- **Operating voltage**: 3600 to 4000Vdc

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

**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
- **AA301**
  - CAT 200: 1280 (L) x 915 (W) x 525 (H) mm
  - CAT 300: 1700 (L) x 660 (W) x 490 (H) mm

**AA301 TYPICAL PULSE SIGNATURE AT 300J**