

AA251, AA301 Boomer Seismic Sound Source



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 the CSP-D range of energy sources.

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 (100-150m) depending on geology

Technical Specification

PHYSICAL

AA251 Boomer plate AA301 Boomer plate	Size 380 x 380mm 620 x 520mm	Weight air/water 18kg/10kg 25kg/14kg	Fixing centres 315mm² 485mm x 440mm	Connector RMK 1/0 RMK 1/0
ELECTRICAL INPUT				
Recommended energy	AA251 AA301	50 – 200J/shot 100 – 300J/shot		
Maximum energy	AA251 AA301	300J/shot 350J/shot		

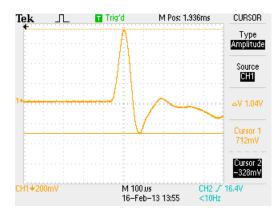


AA251, AA301 Technical Specification continued...

Average energy	AA251 AA301	600J/second 1000J/second	
Operating voltage	3600 to 4000Vdc		
SOUND OUTPUT			
Source level	AA251 AA301	Typically 212dB re 1µPa at 1 metre with 200J Typically 215dB re 1µPa at 1 metre with 300J	
Pulse length	AA251 AA301	120/150/180µs at 50/100/200J 200µs depending on energy setting of CSP	
Reverberation	AA251 AA301	<10% of initial pulse <10% of initial pulse	
COMPATIBLE ENERGY SOURCES			
AA251 AA301	CSP-L, CSP-P, CSP-D, CSP-N, CSP-S1250, CSP-S4000, CSP-S6000 CSP-P, CSP-D, CSP-N, CSP-S1250, CSP-S4000, CSP-S6000		
COMPATIBLE CATAMARAN			
AA251	CAT 100: CAT 200:	940 (L) x 740 (W) x 500 (H) mm 1280 (L) x 915 (W) x 525 (H) mm	
AA301	CAT 200: CAT 300:	1280 (L) x 915 (W) x 525 (H) mm 1700 (L) x 660 (W) 490 (H) mm	
COMPATIBLE HV CABLE AA251 and AA301	HVC 2000 Standard length	50m	

RMK 1/0 connectors complete with locking collars

AA301 TYPICAL PULSE SIGNATURE AT 300J







Due to continual product improvement, specification information may be subject to change without notice. AA251, AA301 Boomers/Dec 2014 ©Applied Acoustic Engineering Ltd.



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