



APPLIED ACOUSTICS

Underwater Technology



: Technical Specification

Squid 500, Squid 2000 & Delta Sparker Seismic Sound Source, Sparker Assemblies

The Squid 500, Squid 2000 and Delta Sparkers are used for high resolution applications with low electrical power input and high penetration.

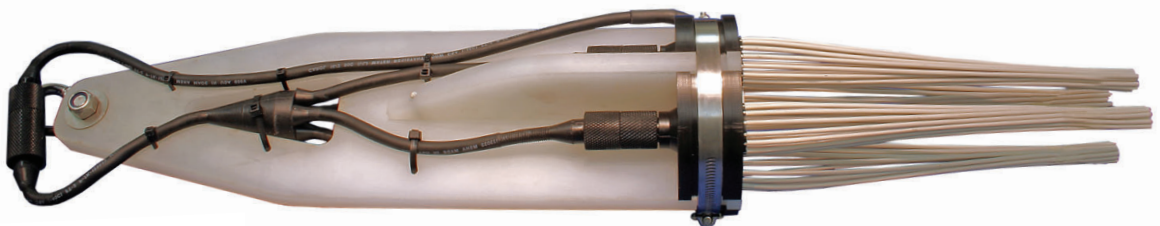
The small Squid 500 is used with a Boomer/Sparker HV cable and is buoyed-off by any suitable device available.

The Squid 2000 is a catamaran based device capable of higher power input. Stable when under tow, the catamaran is easily deployed and also easily adjusted for array depth for the

best possible pulse shape. The horizontal planar array ensures an optimal 'footprint.'

The Delta Sparker is a large device designed for high penetration and as such offers a lower frequency sound pulse than the two smaller 'Squid' designs. Integral buoys are supplied with adjustable depth capability. It can be split in two for ease of shipping.

Different sparker tips can be used with all sparkers to increase resolution or penetration as required. Sub metre resolution and the ability to produce excellent data to hundreds of metres penetration ensure that the AAE sparkers are the proven tool for a wide variety of sub-bottom profiler applications.



SQUID 500

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PHYSICAL SPECIFICATION

	Size	Weight
Squid 500	800 mm long x 150 mm diameter	3kg
Squid 2000	1250 mm long x 900 mm wide x 500 mm high	40kg
Delta Sparker	2500 mm long x 350 mm wide x 250 mm high	50kg (approx)

ELECTRICAL SPECIFICATION

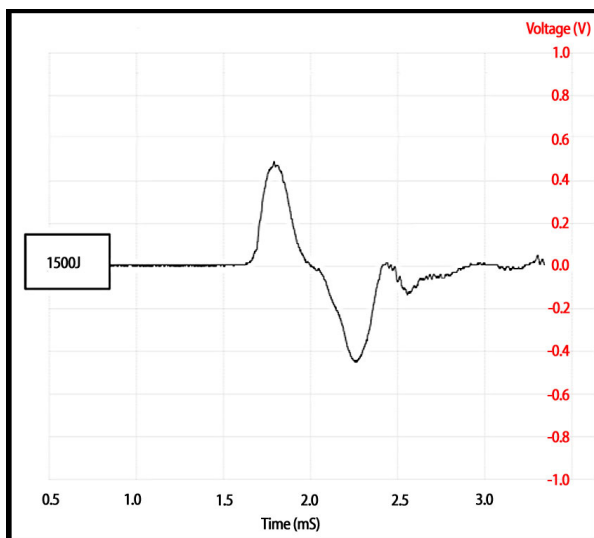
Recommended Power	Squid 500, 300J-800J Squid 2000, 600J-2400J Delta Sparker, 1500J-6000J
Maximum Energy Input	Squid 500, 1200J Squid 2000, 2500J Delta Sparker, 8000J
Operating Voltage	3000-4000 volts

SOUND OUTPUT

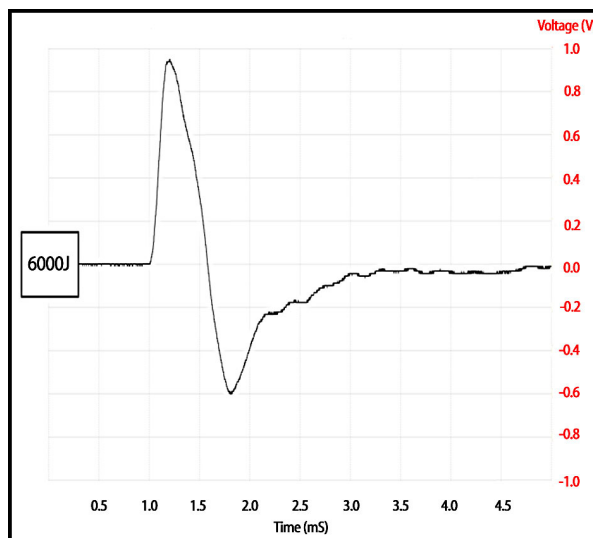
Source Level	Squid 500, 216 dB typical Squid 2000, 222 dB typical
Pulse Length	Squid 500, 2000, Dependent on tips and power applied Delta Sparker, Dependent on tips and power, 1-5 mS typical
Connector Type	Squid 500, Enhanced Joy Plug* Squid 2000, Delta Sparker, Heavy Duty

COMPATIBILITY#

Energy Source	Squid 500, CSP-P; CSP-D; CSP-S Squid 2000, Delta Sparker, CSP-D; CSP-S
HV Cable	Squid 500, HV 4000 Boomer cable Squid 2000, Delta Sparker, Squid 2000 cable



TYPICAL PULSE FROM THE SQUID 2000 AT 1500J



TYPICAL PULSE FROM DELTA SPARKER AT 6000J

NOTES

Older CSP units may also be used.
* Squid 501 has heavy duty connector fitted for use with Squid 2000 cable.



Certificate No. 6447
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