



## : 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.



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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

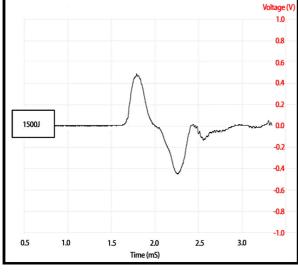
COMPATIBILITY"

Energy Source Squid 500, CSP-P; CSP-D; CSP-S

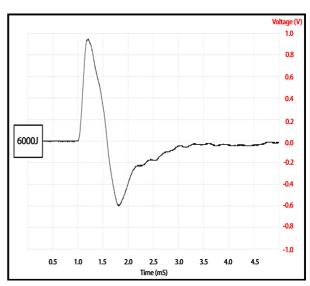
Squid 2000, Delta Sparker, CSP-D; CSP-S

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.



