## **Applied Acoustic Engineering Ltd**



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# **Delta Sparker Seismic Sound Source**



**The Delta Sparker** is the most powerful sparker available in the Applied Acoustics' range and is intended for deeper penetration sub-bottom profiling.

As a multi-tip sparker array, the Delta can be used in UHR multi-channel seismic surveys utilising 24 or 48 channel streamers such as during geohazard assessment, construction projects or shallow target 2D exploration.

Different sparker tips, single or multiple arrangements, can be used to increase resolution or penetration as required.

## **Key Features**

- Powerful sparker for deep penetration surveys
- 1000-12000J, compatible with CSP-D2400 and CSP-S
- 2.5m triangular tow frame, supplied with buoys
- Tow depth can be adjusted
- Replaceable electrodes for easy field maintenance

## **Technical Specification**

### **PHYSICAL**

Dimensions 2550mm (L) x 350mm (W) x 250mm (H)

(can be split in two for ease of shipping)

Weight 50kg approx
Frame material Stainless steel
Buoyancy FA6 floats x 2
Depth of tow Adjustable

Connector RMK 1/0 complete with locking collar

### **ELECTRICAL INPUT**

Recommended energy 1500 – 12,000J/shot Maximum energy 12,000J/shot

Operating voltage 3000-4000V



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## Delta Sparker, Technical Specification continued...

Number of tip locations 3 (yellow, blue, red) Operator selectable

Maximum number of tips 9 single: 3(3 x 1)

135 multi-tip: 3(3 x 15)

### SOUND OUTPUT

Source level Typically 226dB re 1µPa at 1 metre with 6000J

Frequency range 300Hz – 5kHz Pulse length 0.3 – 5.0ms

Dependent on tips and power applied

Penetration 800ms achieved

### **COMPATIBLE ENERGY SOURCES**

Delta Sparker CSP-D to 2400J

CSP-S to 12000J

### **COMPATIBLE HV CABLE**

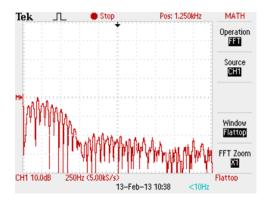
Delta Sparker HVC 3500

Standard length 75m

RMK 1/0 connectors complete with locking collars

## TYPICAL PULSE SIGNATURE AT 12000J







Due to continual product improvement, specification information may be subject to change without notice. Delta Sparker Seismic Sound Source/Nov 2013 ©Applied Acoustic Engineering Ltd.





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