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.

## Technical Specification

### PHYSICAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2550mm (L) x 350mm (W) x 250mm (H) (can be split in two for ease of shipping)</td>
</tr>
<tr>
<td>Weight</td>
<td>50kg approx</td>
</tr>
<tr>
<td>Frame material</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Buoyancy</td>
<td>FA6 floats x 2</td>
</tr>
<tr>
<td>Depth of tow</td>
<td>Adjustable</td>
</tr>
<tr>
<td>Connector</td>
<td>RMK 1/0 complete with locking collar</td>
</tr>
</tbody>
</table>

### ELECTRICAL INPUT

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended energy</td>
<td>1500 – 12,000J/shot</td>
</tr>
<tr>
<td>Maximum energy</td>
<td>12,000J/shot</td>
</tr>
</tbody>
</table>

**Key Features**

- Powerful sparker for deep penetration surveys
- 1000-12000J, compatible with CSP-Dv2400 and CSP-S
- 2.5m triangular tow frame, supplied with buoys
- Tow depth can be adjusted
- Replaceable electrodes for easy field maintenance
Delta Sparker Technical Specification

Operating voltage 3000-4000V
Number of tip locations 3 (yellow, blue, red) Operator selectable
Maximum number of tips 9 single: 3(3 x 1)

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-Dv 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