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underwater technology

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Dura-Spark L80 Seismic Sound Source

Key features

- Long life, durable electrodes
- Pulse stability
- High resolution sub-bottom data, up to 15 cm
- Compact, lightweight
- Single low loss cable
- Inter array: Flip-Flop capability
- Inter array: Fire-Delay capability

Attributes

- High and Ultra-High Resolution coastal geophysical surveys
- Single and multi-channel acquisition
- Water depths of 5 to 200 m

Dura-Spark L80 Overview

The Dura-Spark L80 has been designed to provide a light weight stable, repeatable sound source for sub-bottom geophysical surveys. The long life, durable electrodes produce a consistent pulse signature and keep operational maintenance to a minimum. This provides increased survey efficiency and equipment reliability as the sparker tips rarely need replacement.

The Dura-Spark L80 consists of two banks of 40 tips mounted on a compact catamaran ideal for small coastal vessel survey operations in shallow water. When coupled with the CSP-NP Seismic Power Supply the system offers 2000 J / s peak discharge rate, as well as industry leading design and safety standards.

Technical Specification

PHYSICAL

Dimensions	Length 850 mm Height 530 mm frame Width 640 mm, including floatation
Weight	35 kg (typ)
Connector	RMK 1/0 complete with locking collar

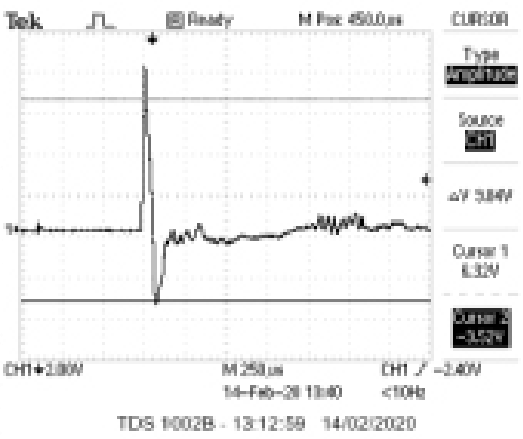
ELECTRICAL INPUT

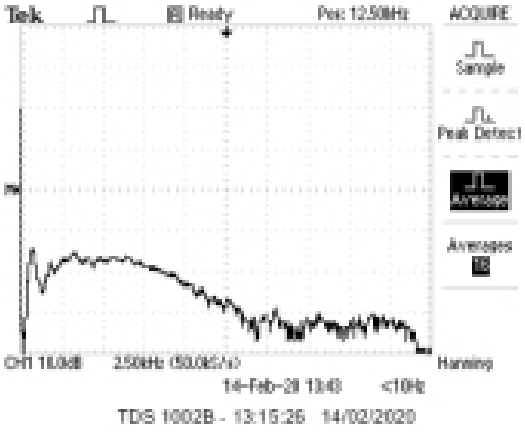
Typical operating energy (40 tip)	100 J, <3 J per tip to minimise bubble collapse component, 300 J Maximum
Typical operating energy (80 tip)	200 J, <3 J per tip to minimise bubble collapse component, 350 J Maximum
Operating voltage	3000 - 4000 V
Maximum number of tips	80 (2x 40 bank)
Power Supply	CSP-NP
HV Supply Cable	HVC-2002
Junction Box	HVJ-2001, HVJ-2002 HVJ-2001, HVJ-2002

SOUND OUTPUT

Source level	221 dB re 1µPa at 1 m (typical)
Pulse length	0.25 ms Dependent on power applied

DURA-SPARK L80 TYPICAL PULSE SIGNATURE AT 200 J





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Due to continual product improvement specification information may be subject to change without notice.

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