
Dura-Spark L80 Seismic Sound Source

Key features

- Long life, durable electrodes
- Pulse stability
- High resolution sub-bottom data, up to 15cms
- 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 200m

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 2000J/s peak discharge rate, as well as industry leading design and safety standards.

Technical Specification

PHYSICAL

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

ELECTRICAL INPUT

Typical operating energy (40 tip)	100J, <3J per tip to minimise bubble collapse component, 300J Maximum
Typical operating energy (80 tip)	200J, <3J per tip to minimise bubble collapse component, 350J Maximum
Operating voltage	3000–4000V
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	221dB re 1µPa at 1m (typical)
Pulse length	0.25ms Dependent on power applied

DURA-SPARK L80 TYPICAL PULSE SIGNATURES AT 200J

