MARINE SURVEY SYSTEMS

Geo-Spark 2000XFO

HIGH VOLTAGE POWER SUPPLIES

Spark up your hi-res seismic survey with innovating negative discharge technology.

Description

THE GEO-SPARK CONCEPT, WHAT MAKES THE DIFFERENCE?
The difference is made by the unique concept of the Geo-Spark power supply, which is designed for a very fast, extremely powerful, **NEGATIVE**, High Voltage discharge of 5.6 kV up to 20 kA.

It is this electric "punch" which makes the difference in the powerful acoustic pulse, that provides utmost resolution and penetration.

MAINTENANCE FREE ELECTRODES WITH 5-YEAR OPERATIONAL GUARANTEE
By using the Geo-Spark power supplies, **the electrode tip-wear is reduced to practically zero**. Finally, the acoustic signature does not degrade anymore, which still happens as the old-fashioned electrodes are quickly burning away.With the Geo-Spark, there is no more need for tedious electrode trimming, there are **no more electrode consumables** and **no more interruptions** in the survey work. This means that you are saving a lot of time and money. Our so-called **PRESERVING ELECTRODE MODE** will give you continuously good quality data, day after day, month after month, year after year....It is almost boring...

RESOLUTION AND PENETRATION
The Geo-Spark signature consists typically of the very strong explosive pulse (CF>1000 Hz), which provides the very high resolution, followed by the implosive pulse (CF<750 Hz), which achieves the penetration. The High Power Geo-Spark Systems have a proven track record of successful use in prestigious Oceanographic Research Programs - check out our gallery for great examples.

Wide Range of Applications

→ From near-shore studies in shallow water depths to hundreds of meters water depth environment.

→ Provides energy to the 200 and 400 tips sparkers Geo-Sources (marine and freshwater) and even the 300-500 Geo-Boomer.

→ It is the ultimate solution to work in line for UHRS 3D surveys.

→ The energy can be easy extended to 7000 J by acquiring a 5000 J extension.

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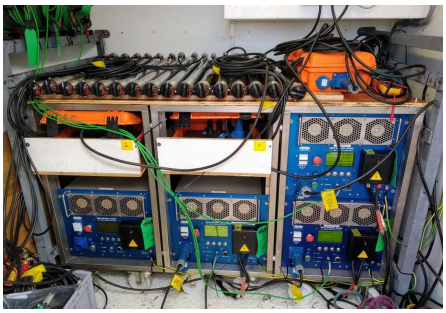
high voltage winch and deck lead.

LCD Display and controls.



Pulsed Power Supplies at a 3D UHRS survey.

User Interface

All internal initializing and safety procedures are microprocessor-controlled and the current system status can be monitored via a comprehensive LCD display and a series of LED's. This provides straightforward system control which basically is limited to the following actions:

- switching on/off the system;
- selecting capacitance and voltage;
- advertising operational parameters;
- activating/deactivating the HV generation.

Specification

Dimensions (cm) & Weight	70 (L) x 50 (W) x 45 (H) for 95 kg
Mains Power	220-240 V AC, 50-60 Hz, 16 A
High Voltage	~5600 V for real acoustic punch
Energy output	selectable from 100 to 2000 J
Operational depth	2 - 500 m
HV charging capability	2000 J / sec
Other remarkable features	- Indestructible 25 kA -5.6 kV discharge Thyristor - Very high dI/dT, NO electrical oscillations - Fully ground-referenced, 100 % safe - Humidity and Temperature protection - State-of-the-art micro-processor based control and monitoring system
Recommended sources	Geo-Source 200 (marine and freshwater) Geo-Source 400 (marine and freshwater) Multi-Layer Sparkers