

## SIG PULSE

THE NEW SERIES OF ENERGY SOURCES

*New fast charging technology*



**RELIABILITY AND ROBUSTNESS OF SIG ENERGY SOURCES...WITH 2000 JOULES IN LESS THAN 50 KILOS !**

**NO BIG GENERATOR, NO PEAK CURRENT AT CHARGE**

**MAXIMUM SAFETY OF HIGH VOLTAGE POWER**

### APPLICATIONS

*3 models  
from the coast  
to the deep water*

- HIGH RESOLUTION SEISMICS
- OCEANOGRAPHIC RESEARCH
- GEOTECHNICAL & MARINE ENGINEERING
- MINERAL EXPLORATION & DREDGING
- FULL OCEAN DEPTH GEOLOGICAL SURVEYS

**MANUFACTURER since 1970**

# SIG PULSE

## THE NEW SERIES OF ENERGY SOURCES

→10-20 m

→50 m

### √SIG Pulse S1

**10-300 JOULES**

**Dimensions :** 50 x 55 x 28 cm / **35 Kg**

**Power selections :**

20-30-40-50-60-80-100-120-140-160-180-200-225-250-300 Joules

**Applications :** 0-100 m shallow and very shallow. In salty water with electrodes. In fresh or brackish water with boomer plate.

**Penetration/resolution :**

140 ms (240 ms) in 40 (90) m of water depth with resolution of 35 cm achieved.

#### Common specifications:

Input voltage : 230 VAC, 50-60 Hz

**Generator required :** P rated 3.7 KW, 17 A minimum for charging rate : 1500 joules/s, regulated at constant current

**Or P rated 4.7 KW, 20 A minimum for charging rate @ 2000 Joules/s**

**no electrical variation**

Output voltage : from 3.0 to 4.0 KV DC

Max peak current : 18 A

Trigger : +ve 4-12 V, 1 ms min., Fiber optic opto-isolated;

→100 m

→150 m

#### SAFETY

High voltage device, electronically controlled and secured to prevent any human errors. No high voltage possible if not properly connected or not immersed HV Cable.

- ✓ Lid interlock
- ✓ Temperature control
- ✓ Overload monitoring
- ✓ Charging control
- ✓ Discharge control
- ✓ Warning for non-immersed HV cable

→500 m

### √SIG Pulse M2

**100-2000 JOULES**

**Dimensions :** 50 x 55 x 38 cm / **49 Kg**

**Power selections :**

100-200-300-400-500-600-700-800-900-1000-1200-1400-1600-1800-2000 Joules

**Applications :** 50-2500 m shallow water on continental margins, to the full ocean water depths

**Penetration/resolution :**

Depending on conditions, 250 m in depths of 150 m, with resolution of about 60 cm, 1000 m @ 1500 J, in depths of 1500 m, 400 m in water depths of 3000 m.

**Dominant frequency :** 1000-1400 Hz @ 500 J with ELC1200.

→1000 m

### √SIG Pulse L5

**100-6000 JOULES**

**Dimensions :** 50 x 55 x 38 cm / **49 Kg**

+ 50 x 55 x 28 cm / **35 Kg**

**Power selections :**

100-200-300-400-500-600-700-800-900-1000-1200-1400-1600-1800-2000 Joules  
2500-3000-3500-4000-4500-5000-5500-6000 joules

**Applications :** complete from coastal areas, to deep ocean surveys.

**Penetration/resolution :**

Average penetration of 500 m in 5000 m of water depths, up to 900 m in good conditions.

**Dominant frequency :** 500 Hz @ 2500 J with ELP100.

→3000 m

→4000 m

→6000 m

