



**SEISMIC DATA  
ACQUISITION**

**SIG** 

[www.marine-seismic-equipments.net](http://www.marine-seismic-equipments.net)

## SPARKER/BOOMER 300 JOULES



### SIG PULSE S1

<b>Dimensions :</b>	50 x 55 x 28 cm, 38 kg
<b>Generator required :</b>	3.9 kW rated, 20 A
<b>Input :</b>	230 VAC, 50-60 Hz
<b>Output voltage :</b>	2.3 to 4.0 kV DC
<b>Trigger required :</b>	Positif 3.3-12 V, 1 ms minimum

<b>Shooting rates :</b>	Optic fiber isolated
	100 ms @ 20 joules
	330 ms @ 300 joules

<b>Charger :</b>	1500 J/sec
<b>Energy storage :</b>	7 + 32 $\mu$ F
<b>Thyristor HV switch :</b>	6000 V / 600 A

### BOOMER sound source

<b>Lead-in cable :</b>	50 m jacketed
<b>Catamaran :</b>	Stainless steel 125 x 90 x 50 cm, 18 kg, towing rope
<b>Boomer plate :</b>	300 J max @ 1 shot/sec
<b>Plate dimensions :</b>	38 x 38 x 8.5 cm, 13 kg in air
<b>Acoustic power :</b>	218 db re $\mu$ Pa @ 1m @ 300 J
<b>Signature duration :</b>	0.12 to 0.15 ms
<b>Frequency spectrum :</b>	500 Hz to 14 kHz

### ANALOG STREAMER SIG 16.8.5

<b>Lead-in cable :</b>	50 m jacketed
<b>Total length/active length :</b>	5 m/ 3.5 m
<b>Nb of channels :</b>	1
<b>Nb of hydronphones per channel :</b>	8
<b>Group sensitivity :</b>	-183 dB +- 1 dB re 1 $\mu$ Pa @ 15 °C
<b>Preamplifier gain :</b>	32 dB
<b>Bandwidth :</b>	120 Hz-2000 Hz

### LASCA software application

<b>Acquisition settings :</b>	Sampling frequency : 8 to 20 kHz
	Shooting rate : 50 ms to 10 s
	Input range : $\pm$ 0.2 V, $\pm$ 1 V, $\pm$ 5 V, $\pm$ 10 V
	Recording length : auto or user defined
	Channel selection : 1, 2 or 1+2
	Trigger : internal or external
	Recording format : SEG-Y
	NMEA-0183 supported RMC, GGA, GLL

