



SeaBattery™

POWER MODULE

OCEAN TRENCH RATED

**EXCELLENT CAPACITY
RETENTION**

**OPERATES EVEN IF
INVERTED**

**AVAILABLE IN
6v, 12v, 24v or 48v CONFIGURATIONS**

**PRESSURE TEST CERTIFICATION
AVAILABLE**



DeepSea Power & Light's **SeaBattery** power module is a pressure-compensated submersible battery pack designed to perform at any depth, even the high pressure, low temperature environment of deep ocean trenches. Routine deployments to 6,000 meters as part of sea floor instruments and towed camera sleds have proven the **SeaBattery** power module to be both reliable and robust in the most demanding of subsea applications. At the heart of each system are maintenance-free, rechargeable, lead-acid batteries utilizing Absorbent Glass Mat (AGM) technology. AGM batteries provide end-users with numerous advantages over wet cell batteries including: maintenance free, no spilling of electrolyte, inverted operation, low self discharge, plus vibration and shock resistance. Recombinant chemistry inside the battery cells minimize outgassing by rejoining free oxygen and hydrogen molecules into water. The **SeaBattery** power module is approved for cargo-only air transport by the U.S. DOT and IATA, if needed.

DeepSea Power & Light electrically conditions each AGM battery to provide maximum capacity, specially adapts each battery for pressure-compensation, then rigidly mounts them in a virtually indestructible heavy wall rotationally molded polyethylene case filled with high purity inert oil. Built into the top of each **SeaBattery** power module case is a heavy section urethane diaphragm providing continuous positive pressure to the interior while responding to the ambient pressure of any depth.

The see through urethane diaphragm incorporates a molded-in valve assembly for filling or venting the battery interior. The see through diaphragm also permits visual inspection of the **SeaBattery** power module interior, allowing your deck crew to confirm the integrity of the wiring harness and interior battery mounts at a glance. Carrying handles are included on the case to simplify handling.

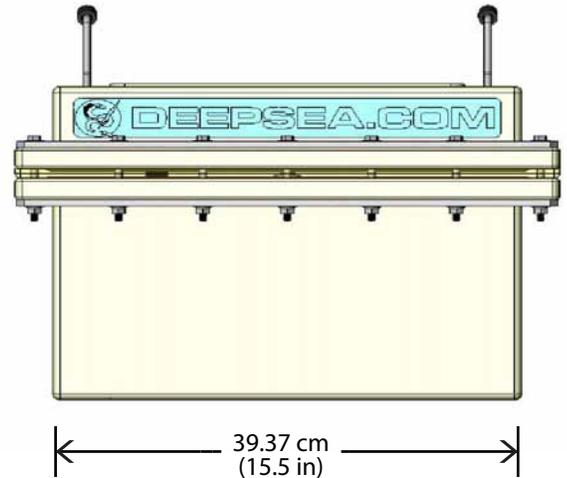
DeepSea Power and Light's **SeaBattery** power module is a tried and true veteran of deep ocean systems for more than 25 years. Get the power you need with the **SeaBattery** power module.

SeaBattery™ Power Module Specifications

Centimeters (inches)

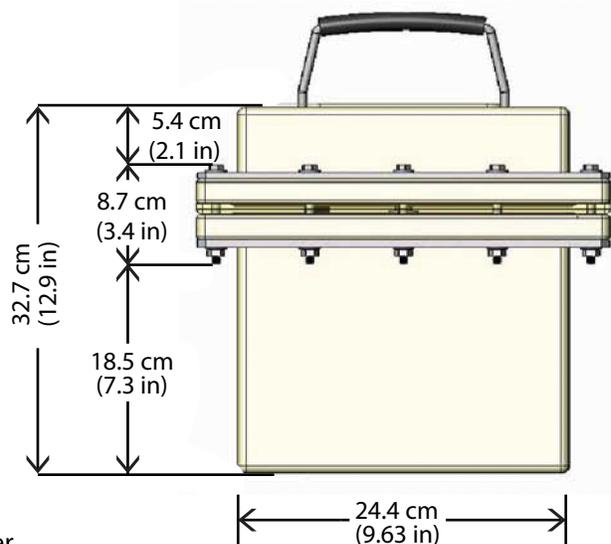
MECHANICAL

Length:	45.7 cm (18.0 in.)
Width:	30.5 cm (12.0 in.)
Height:	32.7 cm (12.9 in.)
Weight in Air:	
SB-6/174:	48.2 kg (106 lbs.)
SB-12/80:	49.0 kg (108 lbs.)
SB-24/40:	49.0 kg (108 lbs.)
SB-48/18:	49.0 kg (108 lbs.)
Weight in Water:	
SB-6/174:	18.2 kg (40 lbs.)
SB-12/80:	19.1 kg (42 lbs.)
SB-24/40:	19.1 kg (42 lbs.)
SB-48/18:	19.1 kg (42 lbs.)
Case:	Molded Polyethylene
Diaphragm:	Molded Polyether Urethane
Compensating Fluid:	Inert oil



ENVIRONMENTAL

Depth:	11,000m
Temperature Range:	
Charge:	-15 C to 50 C (5 F to 122 F)
Discharge:	-20 C to 60 C (-4 F to 140 F)



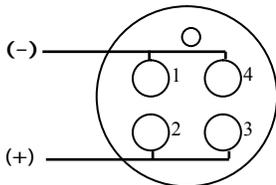
ELECTRICAL

Standard Configurations (nominal)

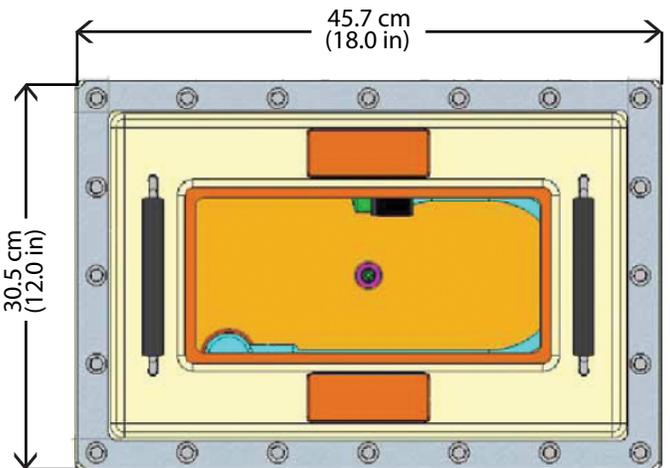
SB-6/174:	6 volt, 174 amp hour
SB-12/80:	12 volt, 80 amp hour
SB-24/40:	24 volt, 40 amp hour
SB-48/18:	48 volt, 18 amp hour
Other Configurations:	Available upon special order
Maximum Discharge Rate:	16 Amps (limited by gauge of cable)

Connector: Right angle diaphragm penetrator on 2-meter cable terminated with IL4FS connector

Pin-out:



- 1 = Ground
- 2 = + Volts
- 3 = + Volts
- 4 = Ground



Box is rotationally molded. Dimensions are Max, but not precise.

Specifications subject to change without notice



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