



SeaBattery™ Power Module

A Reliable Subsea Pressure-Compensated Submersible Battery.



FEATURES

Ocean Trench Rated (11,000 m)

Capable of Inverted Operation

Excellent Capacity Retention

Available in 6v, 12v, 24v or 48v Configurations

Available in High Current Configurations

T: (858) 576-1261
F: (858) 576-0219

4033 Ruffin Road
San Diego, CA
92123- 1817 USA

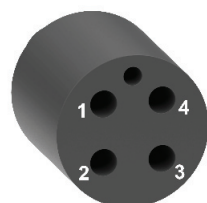
www.deepsea.com
sales@deepsea.com



SeaBattery™ Power Module

	SB-6/210	SB-12/80	SB-24/40	SB-48/21
Mechanical Specifications				
Length	45.7 cm (18.0 in.)			
Width	30.5 cm (12.0 in.)			
Height	32.7 cm (12.9 in.)			
Weight in Air ¹	48.2 kg (106 lbs.) +/- 2%		49.0 kg (108 lbs.) +/- 2%	
Weight in Water ¹	18.2 kg (40 lbs.)		19.1 kg (42 lbs.)	
Case	Molded Polyethylene			
Diaphragm	Molded Polyurethane			
Compensating Fluid	Inert oil			
Environmental Specifications				
Depth	11,000 m			
Charging Temperature Range	-15° C to 50° C (5° F to 122° F)			
Operating Temperature Range	-20° C to 60° C (-4° F to 140° F)			
Recommended Storage Temperature Range ²	0° C to 30° C (32° F to 86° F)			
Connector Type	Impulse IL4FS or SeaCon AWO-3 w/G			
Electrical Specifications				
Standard Configurations ³	6 volt, 210 amp hour	12 volt, 80 amp hour	24 volt, 40 amp hour	48 volt, 21 amp hour
Max Discharge Rate ^{4 5}	IL4FS - 16 Amps / AWO-3 w/G - 100 Amps			

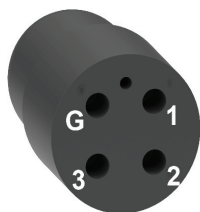
Standard Connectors



IL4FS

(16 Amp Max)

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



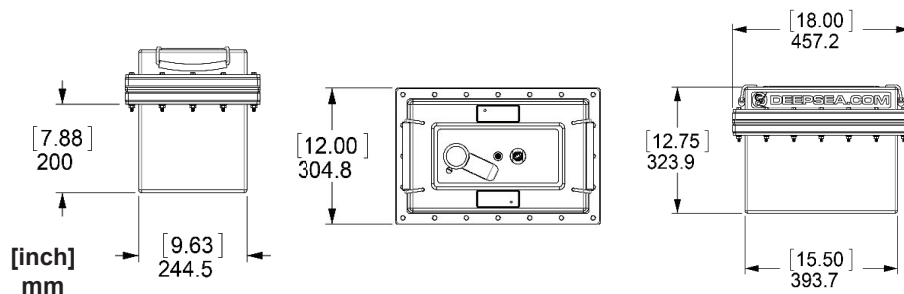
AWO-3 w/G-FS

(100 Amp Max)

Pin 1 = Ground
Pin 2 = + Volts
Pin 3 = + Volts
Pin G = Ground

*Other connectors are available upon request. NRE fee may apply.

Dimensions & Notes



¹ High-Current configurations are nominally 1.2 lbs heavier than standard versions.

² Self discharge rate varies with ambient temperature. At room temperature (20°C (68°F)) it is about 3% per month, and increases or decreases directly proportional to temperature.

³ Stated amp hour ratings (Ah) are manufacturer ratings for the lead-acid batteries contained within the SeaBattery™ Power Module. Due to the modifications required to pressure compensate the lead-acid batteries, DeepSea Power & Light manufactures and recommends the use of special chargers. These custom chargers utilize a lower charge voltage than a typical automotive style charger which serves to reduce gas generation and yields improved service life. As a result of the lower charge voltage, capacity (Ah) is reduced. When designing a system, DeepSea Power & Light recommends a conservative approach, as actual battery capacity depends on many factors including ambient temperature, rate of discharge, number of cycles, and age. For critical applications, it is the responsibility of the customer to evaluate the suitability of the product for their application, as well as the required capacity and length of service life.

⁴ Standard penetrators are limited by to 16 Amps by the gauge of cable. High-Current configurations are capable of a Max Discharge Rate of 100 Amps (50 Amps per contact).

⁵ For maximum battery life, do not discharge battery below 75% of rated voltage.

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