SeaBattery[®] Power Module

A Reliable Subsea Pressure-Compensated Submersible Battery



Patents Pending

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-48/18
Environmental Specificat	ions			
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]			
Electrical Specifications				
Standard Configurations ³	6 volt, 210 amp hour 12 volt, 80 amp hour 24 volt, 40			48 volt, 18 amp hour
Max Discharge Rate4 5	Impulse IL4FS: 16 Amps SEACON AWO-3 w/G: 100 Amps			
Mechanical Specification	S			
Length	457.2 mm [18.00 in.]			
Width	304.8 mm [12.0 in.]			
Height		323.9 mn	n [12.75 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			
Connector				
Connector	Right angle diaphragm penetrator on 2-meter cable terminated with Standard: Impulse IL4FS connector Optional: SEACON AWO-3 w/G			
Chargers		r	· · · · · · · · · · · · · · · · · · ·	-
Charger	N/A	SB-CHG-SW/12	SB-CHG-SW/24	SB-CHG-120/48 SB-CHG-240/48
Standard Connect	or Dimensi	ons & Notes		
1 4 2 3 ● 0 Pin 1 = Gro Pin 2 = + \v/>Pin 3 = + \v/ Pin 4 = Gro	/olts [7.88] /olts 200 pund [inch]	[9.63] [9.63]		
AWO-3 w G 3 2 2 2 2 2 2 2 2	Image: system 2 Self discharge r per month, and in 3 Stated amp ho SeaBattery™ Porteries, DeepSea chargers utilize Yolts gas generation a ound reduced. When actual battery ca of cycles, and ag of the product for 4 Standard penet capable of a Max 2 Self discharge r	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 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 cust chargers utilize a lower charge voltage than a typical automotive style charger which serves to redug as generation and yields improved service life. As a result of the lower charge voltage, capacity (Ah reduced. When designing a system, DeepSea Power & Light recommends a conservative approach, actual battery capacity depends on many factors including ambient temperature, rate of discharge, num of cycles, and age. For critical applications, it is the responsibility of the customer to evaluate the suitab 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).		

