

# EBVW012A7B Barracuda Series DC-DC Converter Power Module

## 34 - 75V<sub>dc</sub> Input, 12.0 V<sub>dc</sub> Output and 12.7A Output Current

### Description

The EBVW012A7B series power module has the same requirements as the EBVW020A0B series power module [consult the data sheet: [omnionpower.com](http://omnionpower.com) for details] with the following changes (shown in bold):

### Technical Specifications

#### Electrical Specifications

Unless otherwise indicated, specifications apply over all operating input voltage, resistive load, and temperature conditions.

Parameter	Device	Symbol	Min	Typ	Max	Unit
Operating Input Voltage	All	V <sub>IN</sub>	34	48	75	V <sub>dc</sub>
Maximum Input Current	All	I <sub>IN,max</sub>	—	—	<u>4.5</u>	A <sub>dc</sub>
Output Voltage (Over all operating input voltage, resistive load, and temperature conditions until end of life)	All	V <sub>O</sub>	<u>10.4</u>	—	—	V <sub>dc</sub>
Output Current	All	I <sub>O</sub>	0	—	<u>12.7</u>	A <sub>dc</sub>
Output Current Limit Inception	All	I <sub>O,lim</sub>	—	<u>15</u>	—	A <sub>dc</sub>

#### Feature Specifications

Unless otherwise indicated, specifications apply over all operating input voltage, resistive load, and temperature conditions. See Feature Descriptions for additional information.

Parameter	Device	Symbol	Min	Typ	Max	Unit
Input Undervoltage Lockout						
Turn-on Threshold	All		<u>31</u>	<u>33</u>	<u>34</u>	V <sub>dc</sub>
Turn-off Threshold	All		<u>31</u>	<u>32</u>	<u>33</u>	V <sub>dc</sub>

## Technical Specification (Continued)

### Ordering Information

Please contact your OmniOn Sales Representative for pricing, availability and optional features.

Input Voltage	Output Voltage	Output Current	Efficiency	Connector Type	Product Code	MSL Rating	Ordering Codes
48V (34-75V <sub>dc</sub> )	12.0V	12.7A	95.0%	Through hole	EBVW012A7B1Z	2a	150024726
48V (34-75V <sub>dc</sub> )	12.0V	12.7A	95.0%	Through hole	EBVW012A7B9641Z	2a	150037305

Table 1. Device Codes.

Characteristic	Character and position										Definition			
<b>Ratings</b>	Form Factor	E										E= Eight Brick		
	Family Designator	B	V									BV = BARRACUDA Series, Without PMBus interface		
	Input Voltage			W								W = Wide Range, 34V- 75V		
	Output Power				012A7							012A7 = 012.7 Amps Maximum Output		
	Output Voltage					B						B=12.0V nominal		
	Trim and Remote Sense Pins										9		Omit = Exclude Trim and Sense Feature and 9 = Includes Trim and Sense Feature and Pins	
	<b>Options</b>	Pin Length										8	Omit= Default Pin Length shown in 8= Pin Length: 2.79 mm ±0.25mm , (0.110 in.+/- 6= Pin Length: 3.68 mm ±0.25mm , (0.145 in.+/-	
Action following Protective											4	Omit= Latching Mode 4= Auto- restart following shutdown (Overcurrent/Overvoltage)		
On/Off Logic											1	Omit= Positive Logic 1=Negative Logic		
											—			
Customer Specific												X	XY= Customer Specific Modified Code, Omit	
RoHS													Z	Z=RoHS Complaint

Table 2. Device Options.

## Change History (excludes grammar & clarifications)

Revision	Date	Description of the change
1.4	04/08/2022	Updated as per template, ROHS
1.5	12/01/2023	Updated as per OmniOn template

**OmniOn Power Inc.**

601 Shiloh Rd.  
Plano, TX USA

[omnionpower.com](http://omnionpower.com)

We reserve the right to make technical changes or modify the contents of this document without prior notice. OmniOn Power does not accept any responsibility for errors or lack of information in this document and makes no warranty with respect to and assumes no liability as a result of any use of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of OmniOn Power. This document does not convey license to any patent or any intellectual property right. Copyright© 2023 OmniOn Power Inc. All rights reserved.