EBVW012A7B Barracuda Series DC-DC Converter Power Module

34 - 75V_{dc} Input, 12.0 V_{dc} 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** 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_{IN}	34	48	75	V_{dc}
Maximum Input Current	All	$I_{IN,max}$	—	—	4.5	A_{dc}
Output Voltage (Over all operating input voltage, resistive load, and temperature	All	V_O	10.4	—	—	V_{dc}
Output Current	All	I_O	0		12.7	A_{dc}
Output Current Limit Inception	All	$I_{O, lim}$	—	15	—	A_{dc}

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		31	33	34	V_{dc}
Turn-off Threshold	All		31	32	33	V_{dc}

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_{dc})	12.0V	12.7A	95.0%	Through hole	EBVW012A7B1Z	2a	150024726
48V (34-75V_{dc})	12.0V	12.7A	95.0%	Through hole	EBVW012A7B9641Z	2a	150037305

Table 1. Device Codes.

	Characteristic	Character and position												Definition
Ratings	Form Factor	E												E= Eight Brick
	Family Designator		BV											BV = BARRACUDA Series, Without PMBus interface
	Input Voltage			W										W = Wide Range, 34V– 75V
	Output Power				012A7									012A7 = 012.7 Amps Maximum Output Current
	Output Voltage					B								B=12.0V nominal
	Trim and Remote Sense Pins						9							Omit = Exclude Trim and Sense Feature and Pins 9 = Includes Trim and Sense Feature and Pins
Options	Pin Length							8 6						Omit= Default Pin Length shown in mechanical Outline Figures 8= Pin Length: 2.79 mm ±0.25mm , (0.110 in.+/- 0.010 in.) 6= Pin Length: 3.68 mm ±0.25mm , (0.145 in.+/ - 0.010 in.)
	Action following Protective Shutdown								4					Omit= Latching Mode 4= Auto– restart following shutdown (Overcurrent/Overvoltage)
	On/Off Logic									1				Omit= Positive Logic 1=Negative Logic
											—			
	Customer Specific										XY			XY= Customer Specific Modified Code, Omit For Standard Code
	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

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