



Certificate of Compliance

Certificate: 80040541

Master Contract: 170351

Project: 80040541

Date Issued: 2020-04-21

Issued To: **Bel Fuse Inc.**
206 Van Vorst St
Jersey City, New Jersey, 07302
United States

Attention: Editha S. Vergara

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: *Gwangyeol Park*
Gwangyeol Park



PRODUCTS

CLASS - C531167 - POWER SUPPLIES Component Type(CSA 62368-1)

CLASS - C531197 - POWER SUPPLIES - Component Type (UL 62368-1) - Component Type (UL 62368-1)

- Certified to US Stds

Component type power supplies intended for use with Information Technology and Business Equipment, where the suitability of the combination is to be determined by CSA Group.

DC-DC Converter, Model 0RQB-C2Q12 series (See below for details),

Rated: input: 9 - 36Vdc, output: 12Vdc, 13A max.

TYPICAL MODEL DESIGNATION:

0	R	QB	-	C2	Q	12	X	Y
I	II	III	-	IV	V	VI	VII	VIII



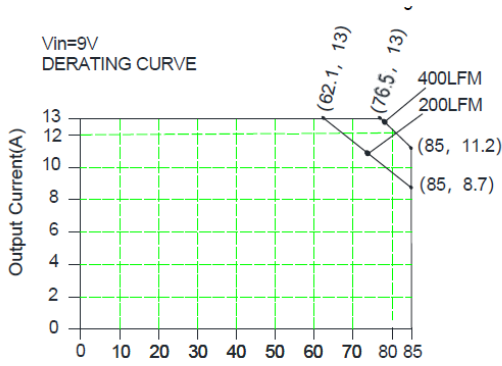
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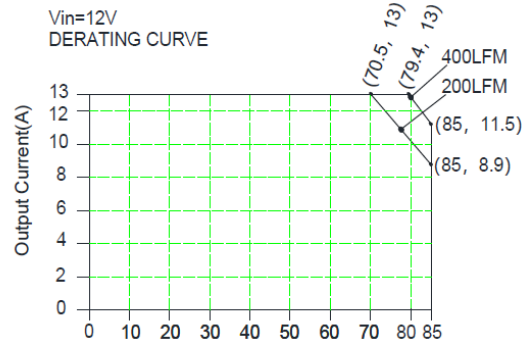
I – Mounting Type:	0 = Through hole mount
II – RoHS Status:	R = RoHS
III – Series Name:	QB = 1/4 th Brick
IV – Output Power:	C2 = 156 W
V – Input Range:	Q = 9-36 VDC typical
VI – Output Voltage:	12 = 12 VDC
VII – Options suffix	Active Logic: L = Active low, with baseplate, 0 = Active high, with baseplate
VIII – Options suffix	Package Type: G = Tray package or any other alphanumeric characters for non-safety changes

Conditions of Acceptability:

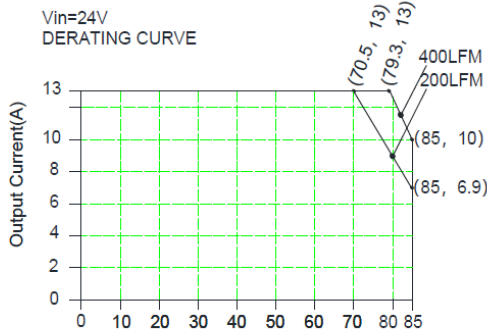
- 1) Equipment shall be installed only by trained service personnel, according to the manufacturer product specifications.
- 2) Unit is intended to be supplied from an isolated secondary circuit and has been evaluated for basic safeguard between the input and output circuits per manufacture required.
- 3) The input and output connectors (pins) are suitable for factory wiring only.
- 4) The unit has been evaluated for use in a Pollution Degree 2 environment, the Creepage values of PSU have been evaluated for material group IIIb.
- 5) Abnormal and Component Failure Test were conducted with the power supply unit (PSU) input protected by an external fuse. External fuse is Fast blow, 30A, 500Vac. Additional testing maybe necessary if higher rating fuse is used.
- 6) The input/output of PSU is Electrical energy source class 1 (ES1), the output of PSU is Power source class 3 (PS3).
- 7) If the input meets all the requirements for ES1 the outputs may be considered ES1. Output voltage remain within ES1 limits, even with internally generated non-ES1 voltages
- 8) The unit is tested for a manufacturer’s recommended ambient maximum temperature as follows:



AMBIENT TEMPERATURE, Ta(°C)
Output Current vs. Local Ambient
Temperature and Air Velocity
Figure 3. Derating curve @ Vin=9V

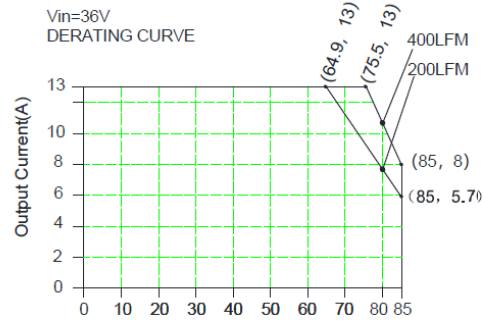


AMBIENT TEMPERATURE, Ta(°C)
Output Current vs. Local Ambient
Temperature and Air Velocity
Figure 4. Derating curve @ Vin=12V



AMBIENT TEMPERATURE, Ta(°C)
Output Current vs. Local Ambient
Temperature and Air Velocity

Figure 5. Derating curve @ Vin=24V



AMBIENT TEMPERATURE, Ta(°C)
Output Current vs. Local Ambient
Temperature and Air Velocity

Figure 6. Derating curve @ Vin=36V

APPLICABLE REQUIREMENTS

- CAN/CSA-C22.2 No. 62368-1:19 - Audio/video, information and communication technology equipment – Part 1: Safety requirements
- UL 62368-1 3rd Ed. - Audio/video, information and communication technology equipment – Part 1: Safety requirements



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80040541	2020-04-21	DC-DC converter, Model 0RQB-C2Q12X (CSA c/us)