Certificate of Compliance

Certificate: 70040691 **Master Contract:** 170351

Project: 70187883 **Date Issued:** 2018-06-13

Issued to: **Bel Fuse Inc.**
206 Van Vorst St
Jersey City, New Jersey 07302
USA

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: *Kwok Tong (Elton) Chiu*
Kwok Tong (Elton) Chiu

PRODUCTS

CLASS – 5311 11 - POWER SUPPLIES-Component Type (CSA 60950-1-07-2nd Ed)
CLASS – 5311 91 - POWER SUPPLIES-Component Type (UL 60950-1-2nd Ed) Certified to U.S. 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 Power Supply, Model P Series, where one supply feed is earthed (within the same building), model dependent, input 16V dc to 150V dc, 12A max.; outputs (up to 4) max., 122W total output.

Typical Model Designation:	B	P	1	10	1 -	7	X
	I	II	III	IV	V--	VI	VII

I – Input Voltage, V dc:
B – 16 to 36
C – 33.6 to 75
D – 40 to 100.8
E – 66 to 150
G – 21.6 to 50.4

II – Model Series: P

III – No. of Outputs: 1 – Single output
2 – Double output
3 – Triple output
4 – Quadruple output

IV – Other specification for main output: 01 to 99

V – Nominal Output Voltage: 01 – 5.1V
10 – 3.3V
20 – 12V
40 – 15V
60 – 24V
Other customer specifications 01 to 99 (Applicable for nominal output voltage up to 24V only)

VI – Operational ambient temperature range, Ta: 0 to 6 other
7 - -25°C to 71°C
9 - -40°C to 71°C

VII – Options Suffix: X – alpha-numeric characters denoting non-safety critical options

Note: All model designations may be followed by "G" indicating R0HS Compliance.

Electrical Ratings for Model GP – Input 21.6 to 50.4V dc:

Output 1			Output 2			Output 3			Output 4			Type
Vo nom [V dc)	Po nom [W]	Po max [W]	Vo nom [V dc)	Po nom [W]	Po max [W]	Vo nom [V dc)	Po nom [W]	Po max [W]	Vo nom [V dc)	Po nom [W]	Po max [W]	Input Voltage 21.6 -50.4 V dc
3.3	100	132	-	-	-	-	-	-	-	-	-	GP 1101-7R
5.1	122	183	-	-	-	-	-	-	-	-	-	GP 1001-7R
3.3	50	66	5.1	61	91	-	-	-	-	-	-	GP 2101-7R
5.1	61	91	5.1	61	91	-	-	-	-	-	-	GP 2001-7R
12	60	96	12	60	96	-	-	-	-	-	-	GP 2320-7R
15	80	97	15	60	97	-	-	-	-	-	-	GP 2540-7R
24	60	96	24	60	96	-	-	-	-	-	-	GP 2660-7R
5.1	61	91	12	30	48	12	30	48	-	-	-	GP 3020-7R
5.1	61	91	15	30	48	15	30	48	-	-	-	GP 3040-7R
5.1	61	91	24	30	48	24	30	48	-	-	-	GP 3060-7R
5.1	20	30	12	30	48	12	30	48	3.3	10	20	GP 4720-7R
12	30	48	12	30	48	12	30	48	12	30	48	GP 4320-7R
15	30	48	15	30	48	15	30	48	15	30	48	GP 4540-7R
24	30	48	24	30	48	24	30	48	24	30	48	GP 4660-7R

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Electrical Ratings for Model BP – Input 16 to 36V dc and for Model CP – Input 33.6 to 75V dc:

Output 1			Output 2			Output 3			Output 4			Type	Type
Vo nom [V dc)	Po nom [W]	Po max [W]	Vo nom [V dc)	Po nom [W]	Po max [W]	Vo nom [V dc)	Po nom [W]	Po max [W]	Vo nom [V dc)	Po nom [W]	Po max [W]	Input Voltage 16-36 V dc	Input Voltage 33.6-75 V dc
3.3	100	132	-	-	-	-	-	-	-	-	-	BP 1101-7R	CP 1101-7R
5.1	122	183	-	-	-	-	-	-	-	-	-	SP 1001-7R	CP 1001-7R
3.3	50	66	5.1	61	91	-	-	-	-	-	-	BP 2101-7R	CP 2101-7R
5.1	61	91	5.1	61	91	-	-	-	-	-	-	BP 2001-7R	CP 2001-7R
12	60	96	12	60	96	-	-	-	-	-	-	BP 2320-7R	CP 2320-7R
15	60	97	15	60	97	-	-	-	-	-	-	BP 2540-7R	CP 2540-7R
24	60	96	24	60	96	-	-	-	-	-	-	BP 2660-7R	CP 2660-7R
5.1	61	91	12	30	48	12	30	48	-	-	-	BP 3020-7R	CP 3020-7R
5.1	61	91	15	30	48	15	30	48	-	-	-	BP 3040-7R	CP 3040-7R
5.1	61	91	24	30	48	24	30	48	-	-	-	BP 3060-7R	CP 3060-7R
5.1	20	30	12	30	48	12	30	48	3.3	10	20	BP 4720-7R	CP 4720-7R
12	30	48	12	30	48	12	30	48	12	30	48	BP 4320-7R	CP 4320-7R
15	30	48	15	30	48	15	30	48	15	30	48	BP 4540-7R	CP 4540-7R
24	30	48	24	30	48	24	30	48	24	30	48	BP 4660-7R	CP 4660-7R

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Electrical Ratings for Model DP - Input 40 to 100.8V dc and for Model EP – Input 66 to 150V dc:

Output 1			Output 2			Output 3			Output 4			Type	Type
Vo nom [V dc)	Po nom [W]	Po max [W]	Vo nom [V dc)	Po nom [W]	Po max [W]	Vo nom [V dc)	Po nom [W]	Po max [W]	Vo nom [V dc)	Po nom [W]	Po max [W]	Input Voltage 40-100.8 V dc	Input Voltage 66-150 V dc
3.3	100	132	-	-	-	-	-	-	-	-	-	DP 1101-7R	EP 1101-7R
5.1	122	183	-	-	-	-	-	-	-	-	-	DP 1001-7R	EP 1001-7R
3.3	50	66	5.1	61	91	-	-	-	-	-	-	DP 2101-7R	EP 2101-7R
5.1	61	91	5.1	61	91	-	-	-	-	-	-	DP 2001-7R	EP 2001-7R
12	60	96	12	60	96	-	-	-	-	-	-	DP 2320-7R	EP 2320-7R
15	60	97	15	60	97	-	-	-	-	-	-	DP 2540-7R	EP 2540-7R
24	60	96	24	60	96	-	-	-	-	-	-	DP 2660-7R	EP 2660-7R
5.1	61	91	12	30	48	12	30	48	-	-	-	DP 3020-7R	EP 3020-7R
5.1	61	91	15	30	48	15	30	48	-	-	-	DP 3040-7R	EP 3040-7R
5.1	61	91	24	30	48	24	30	48	-	-	-	DP 3060-7R	EP 3060-7R
5.1	20	30	12	30	48	12	30	48	3.3	10	20	DP 4720-7R	EP 4720-7R
12	30	48	12	30	48	12	30	48	12	30	48	DP 4320-7R	EP 4320-7R
15	30	48	15	30	48	15	30	48	15	30	48	DP 4540-7R	EP 4540-7R
24	30	48	24	30	48	24	30	48	24	30	48	DP 4660-7R	EP 4660-7R

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 60950-1-07, +Am.1:2011 +Am.2:2014	– Information Technology Equipment - Safety - Part 1: General Requirements
UL 60950-1-2014	– Information Technology Equipment - Safety - Part 1: General Requirements

CONDITIONS OF ACCEPTABILITY

The following must be evaluated in end use:

1. Enclosure Protective earth ground connection.
2. Accessible energy hazards at output connections.
3. Connections to other SELV circuits.
4. Disconnect devices.
5. DC supply is isolated from the AC Mains by reinforced insulation.
6. One leg of the DC supply is earthed within the same building.

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
70187883	2018-06-13	Update Report 70040691 to correct the output voltage for output 2 and output 3 from 60 V to 24 V.
70040691	2015-07-29	DC-DC Power Supply, P Series. (C/US) (transferred from 173688 - 2247050 and upgraded to include Am1 and Am2).