

UL TEST REPORT AND PROCEDURE

Standard:	ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10)(Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance) CAN/CSA-C22.2 No. 60601-1 (2008) (Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance)
Certification Type:	Component Recognition
CCN:	QQHM2, QQHM8 (Power Supplies, Medical and Dental)
Product:	Medical Power Supply
Model:	BP(a)020(b)(c)(e)(f) and (a)ENB1020(b)(c)(d)(e)(f) (a) can be A to Z for family related designs. (b) can be S for single output in model BP(a)020 series and A to Z for design revision changes in model (a)ENB1020 series. (c) can be 03 for 3.3Vdc, 05 for 5.0Vdc, 06 for 6.0Vdc, 07 for 7.5Vdc, 09 for 9.0Vdc, 12 for 12Vdc, 14 for 14Vdc, 15 for 15Vdc, 18 for 18Vdc, 24 for 24Vdc or 48 for 48Vdc output voltage. (d) can be 00 thru 99 for standards output cord options ("d") is not provided in model BP(a)020series). (e) can be F or N or Q or B or H or G or M or C for input plug type. See Enclosure-Photographs for each plug-type configuration F-Class I appliance inlet type: IEC60320-C14 Q-Class II appliance inlet type: IEC60320-C18 N-Class II appliance inlet type: IEC60320-C8 B or C-Class I & Class II direct-plug-in for North America, China, Japan and Argentina (Changeable Direct-plug-in type is only used for Class II) H-Class I & Class II direct-plug-in for Australia (AS/NZS 3112) G-Class I & Class II direct-plug-in for British (BS 1364) M-Class I & Class II direct-plug-in for European (CEE /16)] & Korea. (f) can be 00 thru 99 for customer options, not related safety concerns.
Rating:	Rated Input; 100-240 Vac, 50-60 Hz, 0.5 A(0.5 A-0.3 A) Rated Output; 3.3Vdc, 3.0A or 5Vdc, 3.0A or 5Vdc, 2.4A or 6Vdc, 2.5A or 7.5Vdc, 2.0A or 9Vdc, 2.0A or 9Vdc, 1.5A or 12Vdc, 1.5A or 14Vdc, 1.2A or 15Vdc, 1.2A or 18Vdc, 1.0A or 24Vdc, 0.75 or 48Vdc, 0.4A or 48Vdc, 0.35A. (Rated output voltage is designated in the model name designation system).
Applicant Name and Address:	BRIDGEPOWER CORP 964 GOSAEK-DONG GWONSEON-GU SUWON-SI GYEONGGI-DO 441-813 KOREA

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared by: DongGug Cho

Reviewed by: DongYoul Kim

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

Products are component power supplies intended to be used as part of Medical Electrical Equipment. This AC Input Power Supply provides 2MOPP isolation from Primary to Secondary/Enclosure(for Class II construction) and/or 1MOPP isolation from Primary to Earth (for Class I construction). It contains the mains transformer with UL Recognized Insulation System.

This product is the AC-DC Adaptor of the switching type power supply, which electronic components are mounted on PWB and housed in plastic enclosure and provided with appliance inlet.

Model Differences

The BP-series is the base model. Model ENB1020-series is identical to the base model BP-series except for the model type designations.

The below information is nomenclature detail for BP(a)020(b)(c)(e)(f) and (a)ENB1020(b)(c)(d)(e)(f):

(a) can be A to Z for family related designs.

(b) can be S for single output in model BP(a)020 series and A to Z for design revision changes in model (a)ENB1020 series.

(c) can be 03, 05, 06, 07, 09, 12, 14, 15, 18, 24 or 48 for output voltage.

(d) can be 00 thru 99 for standards output cord options ("d" is not provided in model BP(a)020series).

(e) can be F or N or Q or B or H or G or M or C for input plug type.

See Enclosure-Photographs for each plug-type configuration

F-Class I appliance inlet type: IEC60320-C14

Q-Class II appliance inlet type: IEC60320-C18

N-Class II appliance inlet type: IEC60320-C8

B or C-Class I & Class II direct-plug-in for North America, China, Japan and Argentina (Changeable Direct-plug-in type is only used for Class II)

H-Class I & Class II direct-plug-in for Australia (AS/NZS 3112)

G-Class I & Class II direct-plug-in for British (BS 1364)

M-Class I & Class II direct-plug-in for European (CEE /16)] & Korea.

(f) can be 00 thru 99 for customer options, not related safety concerns.

Technical Considerations

- Classification of installation and use : Hand-held or Portable
- Device type (component/sub-assembly/ equipment/ system) : Component power supply
- Intended use (Including type of patient, application location) : To supply regulated power.
- Mode of operation : Continuous
- Supply connection : Appliance inlet or direct Plug-in type
- Accessories and detachable parts included : None
- Other options include : None
- The product was investigated to the following additional standards:: ANSI/AAMI ES60601-1:2005/C1:2009 (includes National Differences for USA); CAN/CSA-C22.2 No. 60601-1:08 (includes National Differences for Canada), EN 60601-1:2006


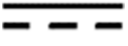

- The product was not investigated to the following standards or clauses:: Electromagnetic Compatibility (IEC 60601-1-2) Clause 14, Programmable Electronic Systems Biocompatibility (ISO 10993-1) Patient applied parts clauses: 4.6, 7.2.10, 8.3, 8.5.2, 8.5.5, 8.7.4.7-8.7.4.9, 8.9.1.15 Battery related clauses: 7.3.3, 15.4.3 Hand Control related clauses: 8.10.4 Oxygen related clauses: 11.2.2 Fluids related clauses: 11.6.2 - 11.6.4 Sterilization clause: 11.6.7 Motor related clauses: 13.2.13.3, 13.4 Heating Elements related clause: 13.2 Flammable Anesthetic Mixtures Protection: Annex G
- The degree of protection against harmful ingress of water is:: Ordinary
- The following accessories were investigated for use with the product:: No
- The mode of operation is:: Continuous
- The product is suitable for use in the presence of a flammable anesthetics mixture with air or oxygen or with nitrous oxide:: No
- Scope of Power Supply evaluation defers the following clauses to the be determined as part of the end product: Clause 7.5 (Safety Signs), Clause 7.9 (Accompanying Documents), Clause 9 (Mechanical Hazard), Clause 10 (Radiation), Clause 14 (PEMS), Clause 16 (ME Systems)
- These power supplies have been previously evaluated by UL to UL 60601-1: 1st ed., 2006-04-26 (includes National Differences for USA), CAN/CSA-C22.2 No. 601.1-M90 (R2005) (includes National Differences for Canada) under UL Test Report No. E302267-A29, and also by UL to UL 60950-1: 2nd ed., 2007 under UL Test Report No. E300305-A54. All tests conducted per 2nd ed. of UL 60601-1 and UL 60950-1 were considered representative of the corresponding tests required by 3rd ed. of AAMI ES 60601-1 and CAN/CSA C22.2 NO.60601-1 as stated under Summary of Testing above.
- Software is relied upon for meeting safety requirements related to mechanical, fire and shock: No
- The product is suitable for use in the presence of a flammable anaesthetics mixture with air or oxygen or with nitrous oxide: No
- The product has been considered for Pollution Degree 2 and Overvoltage Category II.

Engineering Conditions of Acceptability

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

- Considerations to the applied parts requirement, to be conducted as end-product
- Consideration should be given to measuring the temperature on power electronic components and transformer windings when the power supply is installed in the end-use equipment. The end-use product shall ensure that the power supply is used within its ratings.

- The output circuits have not been evaluated for direct patient connection (Type B, BF or CF).
- The component shall be installed in compliance with the enclosure, mounting, marking, spacing, and separation requirements of the end use application.
- Power supply provides the following MOPP (means of patient protection): 2 MOPP based upon a rated voltage 198 Vrms and a working voltage 600 Vpk between Primary and Secondary/Enclosure and 1 MOPP based on a rated voltage 240 Vrms between Primary and Earth.
- Temperature, Leakage Current, Protective Earthing, Dielectric Voltage Withstand, and Marking Legibility tests should be considered as part of the end product evaluation.
- The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tmra) of 40 °C at Full Load.
- Magnetic devices (T1) employ a Class B (130°C) insulation system
- The PWB is rated 105°C minimum.
- The products were tested on a 15 A branch circuit. If used on a branch circuit greater than this, additional testing may be necessary.
- The end-product evaluation shall ensure that the requirements related to Accompanying Documents, Clause 7.9 are met.
- End product Risk Management Process to include consideration of requirements specific to the Power Supply.
- End product Risk Management Process to consider the need for different orientations of installation during testing.
- Power Supply tested for 48 hours Humidity Preconditioning. End product Risk Management Process to determine risk acceptability criteria.
- End product to determine the acceptability of risk in conjunction to insulation to resistance to heat, moisture, and dielectric strength.
- Temperature Test was conducted without Test Corner due to no heating elements incorporated in this power supply. End product to determine the acceptability of risk in conjunction to temperature testing without test corner as part of the power supply.
- End product to determine the acceptability of risk in conjunction to the results of Mechanical Testing conducted.

Additional Information	
N/A	
Markings and instructions	
Clause Title	Marking or Instruction Details
Company identification	Classified or Recognized company's name, Trade name, Trademark or File
Model	Model number
Supply Connection	Voltage range, ac/dc, phases if more than single phase
Alternating current	
Direct current	
Supply Frequency	Rated frequency range in hertz
Class II equipment	
Power Input	Amps, VA, or Watts
Output	Rated output voltage, power, frequency.
Special Instructions to UL Representative	
N/A	

Production-Line Testing Requirements			
Test Exemptions - The following models are exempt from the indicated test			
Model	Grounding Continuity	Dielectric Voltage Withstand	Patient Circuit Dielectric Voltage Withstand
All models	Not Except	Not Except	Except
Solid-State Component Test Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during either Dielectric Voltage Withstand Test:			
Component			
N/A			
Sample and Test Specifics for Follow-Up Tests at UL			
The following tests shall be conducted in accordance with the Generic Inspection Instructions			
Plastic Enclosure or Part	Test	Sample(s)	Test Specifics
N/A			

TABLE: List of Critical Components

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
Enclosure	Cheil Industries	HN-1064(+)	Overall Sized approx 84.5 by 46.5 by 32mm & 113 by 48 by 33.5mm. Min 2.0 mm thickness, V-0. A Recognized Fabricated Part by 'QMMY2' Manufacturer.	QMFZ2	UL
Appliance Inlet-Class I	Rong Feng Industrial	SS-120	Min.10A, 250V	AXUT2	UL
Appliance Inlet-Class II	Rong Feng Industrial	RF-180	Min.2.5A, 250V	AXUT2	UL
Fuse (F1, F2)	Wickmann-Werke GMBH	392	Rated 250V, 3.15A. Marked as "250V, T3.15AL" on PWB.	JDYX2	UL
Fuse (F1, F2) - Alternate	Save Fusetech Inc.	SS-5	Rated 250V, 3.15A. Marked as "250V, T3.15AL" on PWB.	JDYX2	UL
Fuse (F1, F2) - Alternate	Hollyland	5ET	Rated 250V, 3.15A. Marked as "250V, T3.15AL" on PWB.	JDYX2	UL
Varistor (ZNR4) (Optional)	Success Electronics	SVR14D471K	Rated Min. 470 V, (line-to-line), Overall dimension 14 mm.	VZCA2/8	UL/cUL
Varistor (ZNR4) (Optional) - Alternate	AMOTECH CO LTD	INR14D471	Rated Min. 470 V, (line-to-line), Overall dimension 14 mm.	VZCA2	UL
Thermister (TH1)	Various	Various	NTC, 5ohm at 25°C.	Tested in the equipment	-
X-capacitor (CX1) (Line to Line)	Carli	MPX	250V, max.0.1 uF. Marked with X1 or X2. Meets IEC384-14.	FOWX2	UL
X-capacitor (CX1) (Line to Line) - Alternate	Pilkor	PCX2 335M or PCX2 337	250V, max.0.1 uF. Marked with X1 or X2. Meets IEC384-14.	FOWX2, FOWX8	UL/cUL
X-capacitor (CX1) (Line to Line) - Alternate	Sunil	436D	250V, max.0.1 uF. Marked with X1 or X2. Meets IEC384-14.	FOWX2, FOWX8	UL/cUL
X-capacitor (CX1) (Line to Line) - Alternate	Tenta	MEX	250V, max.0.1 uF. Marked with X1 or X2. Meets IEC384-14.	FOWX2, FOWX8	UL/cUL
Discharge resistor (PR1, PR2)	Various	Various	Min.1/8W, 510Kohm.	Tested in the equipment	-
Discharge resistor (PR1, PR2)-24V & 48V only	Various	Various	Min.1/8W, 1.5Mohm.	Tested in the equipment	-
Line Filter (LF1)	Bridgepower Corp or	3025517	Core: Ferrite, Coils: Polyurethane wire min130°C.	Tested in the	-

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
	Wendeng Jeil Electronics Co Ltd		Bobbin: (QMFZ2), Hexian Specialty Chemicals, type PM9820@, V-0, 150°C. See Enclosure for details.	equipment	
Y-Capacitors (CY1)	Success Electronics	SE	250V, max.1000 pF. Marked with Y1. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1) - Alternate	TDK Corp.	CD	250V, max.1000 pF. Marked with Y1. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1) - Alternate	Dongil	DA	250V, max.1000 pF. Marked with Y1. Meets IEC384-14.	FOWX2/8	UL
Y-Capacitors (CY1) - Alternate	Netron tech	AA	250V, max.1000 pF. Marked with Y1. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1) - Alternate	Samwha Capacitor	SD	250V, max.1000 pF. Marked with Y1. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1) - Alternate	KUNSHAN TONGFENG ELECTRONICS CO LTD	CT7	250V, max.1000 pF. Marked with Y1. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1, CY2) - Alternate	Success Electronics	SE or SB	250V, max.1000 pF. Marked with Y1 or Y2. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1, CY2) - Alternate	TDK Corp.	CD or CS	250V, max.1000 pF. Marked with Y1 or Y2. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1, CY2) - Alternate	Dongil	DA or DS	250V, max.1000 pF. Marked with Y1 or Y2. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1, CY2) - Alternate	Netron tech	AA or AD	250V, max.1000 pF. Marked with Y1 or Y2. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1, CY2) - Alternate	Samwha Capacitor	SD, SC	250V, max.1000 pF. Marked with Y1 or Y2. Meets IEC384-14.	FOWX2	UL
Y-Capacitors (CY1, CY2) - Alternate	KUNSHAN TONGFENG ELECTRONICS CO LTD	CT7	250V, max.1000 pF. Marked with Y1 or Y2. Meets IEC384-14.	FOWX2	UL
Bridge Resistor (R3)	Various	Various	1/4W, 10MOhm	Tested in the equipment	-
Bridge Resistor (R3, R4) - Alternate	Various	Various	1/4W, 4.7MOhm	Tested in the equipment	-

Object/part or Description	Manufacturer/trademark	type/model	technical data	CCN	Marks of Conformity
Bridge diode (BD1)	Various	Various	Min 600V, max. 0.8A.	Tested in the equipment	-
Electrolytic Capacitor (C1, C2)	Various	Various	Rated 400 V or 450V, max. 22 uF, min. 105°C.	Tested in the equipment	-
Switching IC (U1)	Various	Various	Max30V, Max4mA.	Tested in the equipment	-
FET (Q1)	Various	Various	Max 650 V, 4.2A. Secured to HS1 by a screw.	Tested in the equipment	-
Main Transformer (T1) for 3.3V output	Bridgepower Corp or Wendeng Jeil Electronics Co Ltd	JEC(B) (Part No.: 3025685001)	Class B: R/C (OBJY2), Class 130(B) Insulation System, BridgePower Corp, Designated JEC(B) Winding: R/C (OBJT2), Triple Insulated Wire, 130 deg C, Furukawa Electric, Cat. No: TEX-E Core: Ferrite, size 25 by 19mm. Coils: Polyurethane wire Min. 130 deg C. Bobbin: (QMFZ2), V-0, 130 deg C.	-	UL
Main Transformer (T1) for 5 V & 6 Voutput	Bridgepower Corp or Wendeng Jeil Electronics Co Ltd	JEC(B) (Part No.: 3025685002 or 3025685002S)	Class B: R/C (OBJY2), Class 130(B) Insulation System, BridgePower Corp, Designated JEC(B) Winding: R/C (OBJT2), Triple Insulated Wire, 130 deg C, Furukawa Electric, Cat. No: TEX-E Core: Ferrite, size 25 by 19mm. Coils: Polyurethane wire Min. 130 deg C. Bobbin: (QMFZ2), V-0, 130 deg C.	-	UL
Main Transformer (T1) for 7.5 V & 9 Voutput	Bridgepower Corp or Wendeng Jeil Electronics Co Ltd	JEC(B) (Part No.: 3025685003)	Class B: R/C (OBJY2), Class 130(B) Insulation System, BridgePower Corp, Designated JEC(B) Winding: R/C (OBJT2), Triple Insulated Wire, 130 deg C, Furukawa Electric, Cat. No: TEX-E Core: Ferrite, size 25 by 19mm. Coils:	-	UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
			<p>Polyurethane wire Min. 130 deg C.</p> <p>Bobbin: (QMFZ2), V-0, 130 deg C.</p>		
Main Transformer (T1) for 12 V output	Bridgepower Corp or Wendeng Jeil Electronics Co Ltd	JEC(B) (Part No.: 3025685004)	<p>Class B: R/C (OBJY2), Class 130(B) Insulation System, BridgePower Corp, Designated JEC(B)</p> <p>Winding: R/C (OBJT2), Polyurethanewire Min. 130deg C.Triple Insulated Wire, 130 deg C, Furukawa Electric, Cat. No: TEX-E</p> <p>Core: Ferrite, size 25 by 19mm. Coils: Polyurethane wire Min. 130 deg C.</p> <p>Bobbin: (QMFZ2), V-0, 130 deg C.</p>	-	UL
Main Transformer (T1) for 14 V & 15 V output	Bridgepower Corp or Wendeng Jeil Electronics Co Ltd	JEC(B) (Part No.: 3025685005)	<p>Class B: R/C (OBJY2), Class 130(B) Insulation System, BridgePower Corp, Designated JEC(B)</p> <p>Winding: R/C (OBJT2), Polyurethanewire Min. 130deg C.Triple Insulated Wire, 130 deg C, Furukawa Electric, Cat. No: TEX-E</p> <p>Core: Ferrite, size 25 by 19mm. Coils: Polyurethane wire Min. 130 deg C.</p> <p>Bobbin: (QMFZ2), V-0, 130 deg C.</p>	-	UL
Main Transformer (T1) for 18 V output	Bridgepower Corp or Wendeng Jeil Electronics Co Ltd	JEC(B) (Part No.: 3025685006)	<p>Class B: R/C (OBJY2), Class 130(B) Insulation System, BridgePower Corp, Designated JEC(B)</p> <p>Winding: R/C (OBJT2), Polyurethanewire Min. 130deg C.Triple Insulated Wire, 130 deg C, Furukawa Electric, Cat. No: TEX-E</p> <p>Core: Ferrite, size 25 by 19mm. Coils: Polyurethane wire Min. 130 deg C.</p>	-	UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
			Bobbin: (QMFZ2), V-0, 130 deg C.		
Main Transformer (T1) for 24 V output	Bridgepower Corp or Wendeng Jeil Electronics Co Ltd	JEC(B) (Part No.: 3025685007)	Class B: R/C (OBJY2), Class 130(B) Insulation System, BridgePower Corp, Designated JEC(B) Winding: R/C (OBJT2), Polyurethanewire Min. 130deg C.Triple Insulated Wire, 130 deg C, Furukawa Electric, Cat. No: TEX-E Core: Ferrite, size 25 by 19mm. Coils: Polyurethane wire Min. 130 deg C. Bobbin: (QMFZ2), V-0, 130 deg C.	-	UL
Main Transformer (T1) for 48 V output	Bridgepower Corp or Wendeng Jeil Electronics Co Ltd	JEC(B) (Part No.: 3025685008)	Class B: R/C (OBJY2), Class 130(B) Insulation System, BridgePower Corp, Designated JEC(B) Winding: R/C (OBJT2), Polyurethanewire Min. 130deg C.Triple Insulated Wire, 130 deg C, Furukawa Electric, Cat. No: TEX-E Core: Ferrite, size 25 by 19mm. Coils: Polyurethane wire Min. 130 deg C. Bobbin: (QMFZ2), V-0, 130 deg C.	-	UL
Optical Isolator (U2)	Vishay Semiconductor	TCET1103(G)	Double protection optical isolator. Providing isolation voltage 5000 Vac. External dcr min. 8.0 mm.	FPQU2/8	UL/cUL
Optical Isolator (U2)-Alternate	COSMO ELECTRONICS CORP	KP1010	Double protection optical isolator. Providing isolation voltage 5000 Vac. External dcr min. 8.0 mm.	FPQU2/8	UL/cUL
Optical Isolator (U2)-Alternate	Sharp Corp	PC123	Double protection optical isolator. Providing isolation voltage 5000 Vac.	FPQU2	UL
Optical Isolator (U2)-Alternate	KODENSHI KOREA	PC-17K PC-17K1C	Double protection optical isolator. Providing isolation voltage 5000 Vac. External dcr min. 8.0 mm.	FPQU2/8	UL/cUL
Heatsink(HS1)(For Q1)	Various	Various	Overall Sized Min. ϕ 18	Tested in the	-

Object/part or Description	Manufacturer/trademark	type/model	technical data	CCN	Marks of Conformity
			by 20 mm , Min. 1.5 mm thick	equipment	
Heatsink(HS2)(For D3)	Various	Various	Overall Sized Min. \varnothing 20 by 21 mm , Min. 1.5 mm thick	Tested in the equipment	-
Insulation Sheet(Between T1 & U2)	Various	Various	Overall Sized Min. \varnothing 31 by 20 mm , Min. 0.4 mm thick	QMFZ2	UL
PWB	Various	Various	Min. V-1, 130°C.	ZPMV2	UL
Output Cable	Various	Various	SPT1. 300 V, 80°C, min 20 AWG, VW-1, FT-1. Max. 3.05 m long	AVLV2	UL
Bonding Glue	Various	Various	Min. V-2, min. 100 °C for additional secureness of internal conductor.	QMFZ2	UL
Nameplate Label	BETHEL	BG-1000	Suitable for use on surface of Polycarbonate (PC) with max.80°C surface temperature.	PGDQ2, PGAA	UL

Enclosures

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Collateral		
Particular		
Photographs	3-04	External View (Changeable direct plug-in type for Australia)
Photographs	3-05	External View of B Type For China (See the nomenclature of model designation)
Photographs	3-06	External View of B Type for North America - Class II (See the nomenclature of model designation)
Photographs	3-07	External View of H Type - Class II (See the nomenclature of model designation)
Photographs	3-08	External View of G Type - Class I (See the nomenclature of model designation)
Photographs	3-09	External View of M Type For Europe - Class II(See the nomenclature of model designation)
Photographs	3-10	External View of N Type 1 - Class II(See the nomenclature of model designation)
Photographs	3-11	External View of Q Type - Class II (See the nomenclature of model designation)
Photographs	3-12	External View (Changeable direct plug-in type for UK)
Photographs	3-13	External View of F Type - Class I (See the nomenclature of model designation)
Photographs	3-14	Internal View of F Type - Class I (See the nomenclature of model designation)
Photographs	3-15	Internal View of F Type - Class I (See the nomenclature of model designation)
Photographs	3-16	External View of POF B type
Photographs	3-17	Internal top view of POE A type
Photographs	3-18	Internal bottom view of POE A type
Photographs	3-19	Internal top view of POE B type
Photographs	3-20	Internal top bottom of POE B type
Diagrams		
Schematics + PWB	5-03	Circuit Diagram
Schematics + PWB	5-04	Pattern Diagram
Manuals		
Miscellaneous	7-01	Marking Plate_1
Miscellaneous	7-02	Marking Plate_2