

UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 3rd Ed, Issued: 2019-12-13 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, Issued: 2019-12-13 (Audio/video, information and communication technology equipment Part 1: Safety requirements)
Certification Type:	Listing
CCN:	QQJQ, QQJQ7 (Power Supplies for Use in Audio/Video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	Switching Power Supply (AC/DC Adaptor)
Model:	BX040YXX, XE40YXX, BX030YXX, XE30YXX (Where X may be alphanumeric, where YY may any number 05 through 48)
Rating:	Input Rating: 100-240 Vac, 50-60 Hz, 1.2 A Output Rating (Voltage, 030 series / 040 series) 5 Vdc, 4.0A/5.0A or 9 Vdc, 3.0A/4.0A or 12 Vdc, 2.5A/3.4A or 15 Vdc, 2.0A/2.7A or 18 Vdc, 1.67A / 2.22A or 18.5Vdc, 1.62A or 24 Vdc, 1.33A / 1.7A or 48 Vdc, 0.63 A, 0.67 A / 0.83A or 5Vdc/4.0A~48Vdc /0.83A
Applicant Name and Address:	BRIDGEPOWER CORP (GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL GWONSEON-GU SUWON-SI GYEONGGI 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.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

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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: HyeongKyun Park / Project
Handler

Reviewed By: BumSeok Na / Reviewer

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

Switching Power Supply (AC/DC Adaptor). Numerous components mounted on printed wiring board, and housed by plastic enclosure.

Model Differences

BX040XYXX, XE40XYXXXXXX, BX030XYXX, XE30XYXXXXXX

(Where X may be alphanumeric, "for marketing purpose and no impact safety related critical components and constructions", where YY may any number 05 through 48)

Model BX040 series are basic model.

Model XE40 series are identical to basic model except for model designation only.



Model BX030 series are identical to basic model except for output current and model designation.

Model XE30 series are identical to model BX010 series except for model designation only.

Test Item Particulars

Product group	end product
Classification of use by	Ordinary person Children likely to be present
Supply Connection	AC Mains
Supply tolerance	+10%/-10%
Supply connection – type	pluggable equipment type A - appliance coupler direct plug-in
Considered current rating of protective device	20 A; Location: building
Equipment mobility	movable transportable direct plug-in
Over voltage category (OVC)	OVC II
Class of equipment	Class I Class II
Special installation location	N/A

Pollution degree (PD)	PD 2
Manufacturer's specified Tma (°C)	40
IP protection class	IPX0
Power systems	TN
Altitude during operation (m)	2000 m or less
Altitude of test laboratory (m)	2000 m or less
Mass of equipment (kg)	Max. 0.20
Technical Considerations	
<ul style="list-style-type: none"> The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 40 °C The product is intended for use on the following power systems : TN Considered current rating of protective device as part of the building installation (A) : 20 Mains supply tolerance (%) or absolute mains supply : +10%/-10% The equipment disconnect device is considered to be : Appliance inlet or Blade of Direct Plug-In Unit The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS) : All accessible output connectors. 	
Additional Information	
<p>New (4789495260)</p> <p>- Max. normal load : Continuous operation with rated output.</p> <p>- Testing was not considered necessary based upon previous evaluation under CB Scheme. The CB Scheme Test Certificate and Report Ref. No. KBW-2020-SI-234 dated 2020-08-11 were prepared by UL Demko.</p>	
Additional Standards	
The product fulfills the requirements of: N/A	
Markings and Instructions	
Clause Title	Marking or Instruction Details
Equipment identification marking – Manufacturer identification	Listee's or Recognized Company's name, Trade Name, Trademark or File Number
Equipment identification marking – model identification	Model Number
Equipment rating marking – ratings	Input Ratings (voltage, frequency/dc, current/power) Output Ratings (voltage, frequency/dc, current/power)
Double pole, neutral fuse - Warning to service personnel	"CAUTION: Double pole, neutral fusing. Disconnect mains before servicing." "ATTENTION. Double pôle/fusible sur le neutre. Débrancher l'alimentation avant l'entretien."

Class I equipment -Terminal for main protective earthing	Proceded adjacent to the main protective earthing material  (IEC 60417-5019)
Class II Equipment	Symbol for Class II construction  (IEC 60417-5172)
Special Instructions to UL Representative N/A	

BD1.0	TABLE: Production-Line Testing Requirements					
BD1.1	Electric Strength Test Special Constructions – Refer to Generic Inspection Instructions, Part AC for further information.					
Model	Component	Removable parts	Test probe location	Test V rms	Test V dc	Test Time, s
BD1.2	Earthing Continuity Test Exemptions – This test is not required for the following models:					
BD1.3	Electric Strength Test Exemptions – This test is not required for the following models:					
BD1.4	Electric Strength Test Component Exemptions – The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test.					

BE1.0	Sample and Test Specifics for Follow-Up Tests at UL				
Model	Component	Material	Test	Sample (s)	Test Specifics