

## UL TEST REPORT AND PROCEDURE

<b>Standard:</b>	UL 60950-1, 2nd Edition, 2011-12-19 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12 (Information Technology Equipment - Safety - Part 1: General Requirements)
<b>Certification Type:</b>	Listing
<b>CCN:</b>	QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
<b>Product:</b>	Switching Power Supply
<b>Model:</b>	BPE035*****, PENB1035*****
<b>Rating:</b>	Input Rating: 100-240 Vac, 50-60 Hz, 1.5 A Output Rating: 56Vdc, 0.6A
<b>Applicant Name and Address:</b>	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.

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

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

Prepared by: InYoung Hwang

Reviewed by: DongSeok Lee

**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 Mode Power Supply(AC/DC adapter), consists of electronic components mounted on PWB, a switching transformer and electronic components mounted on PWB, housed with a plastic enclosure.

**Model Differences**

BPE035 \* \*\* \* \*\*

(a) (b) (c) (d)

- (a) Customer Options ; A to Z (standard)
- (b) Output Voltage ; 56
- (c) Standard input cord options. ;  
can be F or N or Q for input plug type.  
Photographs for each plug-type configuration  
F : (Class I = IEC320-C14)  
Q: (Class II = IEC320-C18)  
N: ((Class II = IEC320-C8)
- (d) Customer Options(Marking, cord etc.) ; 00 to 99


PENB1035 \* \*\* \*\* \* \*\*

(a) (b) (c) (d) (e)

- (a) Design revision changes ; A to Z (standard)
- (b) Output Voltage ; 56
- (c) Customer option number ; 00 to 99
- (d) Standard input cord options. ;  
can be F or N or Q for input plug type.  
Photographs for each plug-type configuration  
F : (Class I = IEC320-C14)  
Q: (Class II = IEC320-C18)  
N: ((Class II = IEC320-C8)
- (e) Customer Options(Marking, cord etc.) ; 00 to 99

**Technical Considerations**

- Equipment mobility : movable
- Connection to the mains : pluggable A
- Operating condition : continuous
- Access location : N/A
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class I (earthed) or ClassII
- Considered current rating of protective device as part of the building installation (A) : 20
- Pollution degree (PD) : 2
- IP protection class : IP X0
- Altitude of operation (m) : Up to 2000m
- Altitude of test laboratory (m) : Less than 2000m
- Mass of equipment (kg) : 190g
- The product was submitted and evaluated for use at the maximum ambient temperature (T<sub>ma</sub>) permitted by the manufacturer's specification of: 40
- The means of connection to the mains supply is: Detachable power cord
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: Appliance inlet
- The following accessible locations (with circuit/schematic designation) are within a limited current

circuit: CY2	
<b>Additional Information</b> 12CA20430 - Maximum Normal Load ; Rated outputs.	
<b>Additional Standards</b> The product fulfills the requirements of: N/A	
<b>Markings and instructions</b>	
Clause Title	Marking or Instruction Details
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
Power rating - Model	Model Number
Power rating - Class II symbol	Symbol for Class II construction  (60417-2-IEC-5172)
<b>Special Instructions to UL Representative</b> N/A	

<b>Production-Line Testing Requirements</b>						
<b><u>Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.</u></b>						
Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
All models	Transformer (T1)	N/A	Primary to Secondary	300 0	4242	1s
<b><u>Earthing Continuity Test Exemptions - This test is not required for the following models:</u></b>						
<b><u>Electric Strength Test Exemptions - This test is not required for the following models:</u></b>						
<b><u>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:</u></b>						
<b><u>Sample and Test Specifics for Follow-Up Tests at UL</u></b>						
Model	Component	Material	Test	Sample(s)	Test Specifics	
N/A						