



TM

Ref. Certif. No.

JPTUV-133793-M1

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Uninterruptible Power Supply

Name and address of the applicant

American Power Conversion Holdings Inc., Taiwan Branch
5F., No. 189, Sec. 2, Jiuzong Rd.,
Neihu Dist., Taipei City 11494 Taiwan

Name and address of the manufacturer

American Power Conversion Holdings Inc., Taiwan Branch
5F., No. 189, Sec. 2, Jiuzong Rd.,
Neihu Dist., Taipei City 11494 Taiwan

Name and address of the factory

See additional page(s)

Ratings and principal characteristics

Input: 1) AC 230V or AC 220-240V; 6.0A, 2), 3) AC 220-240V;
2) 3.2A, 3) 4.3A; 50/60Hz; 1Ø; Class I
Output: refer to the test report.

Trademark (if any)

APC

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

1) BR550GXXXXXX, 2) BR650MXXXXXX, 3) BR900MXXXXXX
(X = I or hyphen; Y = any alphanumeric, +, *, #, _, hyphen
or blank)Additional information (if necessary may
also be reported on page 2)For model differences, refer to the test report.
Re-issue of JPTUV-133793 dated 2022-04-01,
due to first modification.A sample of the product was tested and
found to be in conformity withIEC 62040-1:2017
IEC 62040-1:2017+A1As shown in the Test Report Ref. No. which
forms part of this Certificate

CN21KH8H 002

This CB Test Certificate is issued by the National Certification Body



TÜVRheinland®

TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021, Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com

Date: 2022-05-25

Signature:

Dennis Chiu

1. International Precision Assemblies, Inc.
Block 22 Lot 7&9 Phase 4, CEPZA, Rosario,
Cavite 4106
Philippines
2. International Precision Assemblies,
Inc. Plant 2
Lot 2, Blk 17, Phase IV Peza
Rosario Cavite 4106
Philippines
3. American Power Conversion
(India) Pvt. Ltd.
187/3, 188/3, Jigani, Anekal
Bangalore 562106
India
4. International Precision Assemblies,
Inc.
Lot 6, Blk 8, Phase II Peza
Rosario Cavite 4106
Philippines
5. Fuhong Precision Component
(Bac Giang) Company Limited
Lot P (P1) and P (P2), Quang Chau
Industrial Park, Viet Yen District,
220000 Bac Giang Province, Vietnam
6. Danam Philippines Inc.
Lot 1-A, Block 15, Phase III, PEZA
Rosario, Cavite 4106
Philippines

Additional information (if necessary)

Report Ref. No. : CN21KH8H 002

Date: 2022-05-25

Signature:



Dennis Chiu



Test Report issued under the responsibility of:



TEST REPORT
IEC 62040-1
Uninterruptible power systems (UPS) –
Part 1: General and safety requirements for UPS

Report Number. : CN21KH8H 002

Date of issue..... : Apr. 30, 2022

Total number of pages..... : 9

Name of Testing Laboratory preparing the Report..... : TÜV Rheinland Taiwan Ltd., Taoyuan Testing Laboratories

Applicant's name : American Power Conversion Holdings Inc., Taiwan Branch

Address : 5F., No. 189, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 11494 Taiwan

Test specification:

Standard..... : IEC 62040-1:2017, IEC 62040-1:2017/AMD1:2021

Test procedure..... : CB Scheme

Non-standard test method : N/A

TRF template used : IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No...... : IEC62040_1F

Test Report Form(s) Originator.... : TÜV Rheinland Japan Ltd.

Master TRF : Dated 2021-08-27

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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description	Uninterruptible Power Supply	
Trade Mark.....		
Manufacturer	Same as applicant	
Model/Type reference	1. BR550GXYYYYYY (X = I or hyphen; Y = any alphanumeric, +, *, #, _, hyphen or blank) 2. BR650MXYYYYYY (X = I or hyphen; Y = any alphanumeric, +, *, #, _, hyphen or blank) 3. BR900MXYYYYYY (X = I or hyphen; Y = any alphanumeric, +, *, #, _, hyphen or blank)	
Ratings	1. i/p: 1) 230V~, 6.0A, 50/60Hz, 1 Φ 2) 220-240V~, 6.0A, 50/60Hz, 1 Φ . o/p: 1) Battery Backup Outlets: 230V~, 2.4A, 50/60Hz, 550VA, 330W. Surge Only Outlets: 230V~, 50/60Hz. Total Outlet Current: 5.6A 2) Battery Backup Outlets: 230V~, 50/60Hz, 550VA, 330W. Surge Only Outlets: 220-240V~, 50/60Hz. Total Outlet Current: 5.6A Max. 2. i/p: 220-240V~, 3.2A, 50/60Hz, 1 Φ . o/p: Battery Backup Outlets: 220-240V~; 2.96A; 50/60Hz; 650VA, 390W. 3. i/p: 220-240V~, 4.3A, 50/60Hz, 1 Φ . o/p: Battery Backup Outlets: 220-240V~; 4.1A; 50/60Hz; 900VA, 540W.	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	TÜV Rheinland Taiwan Ltd., Taoyuan Testing Laboratories
Testing location/ address.....		4F-1, No. 38, Huaya 1st Road, Guishan District, Taoyuan City 333, Taiwan
Tested by (name, function, signature)		Joy Yang Project Handler 
Approved by (name, function, signature)....		Jimmy Lu Reviewer 
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	
Testing location/ address.....		
Tested by (name, function, signature)		
Approved by (name, function, signature)....		
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	

Testing location/ address.....:		
Tested by (name + signature).....:		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)...:		
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	
<input type="checkbox"/>	Testing procedure: CTF Stage 4:	
Testing location/ address.....:		
Tested by (name, function, signature)		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)...:		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment): - N/A	
Summary of testing:	
Tests performed (name of test and test clause): <ul style="list-style-type: none"> No tests required. 	Testing location: N/A
Summary of compliance with National Differences (List of countries addressed): N/A <input checked="" type="checkbox"/> The product fulfils the requirements of EN IEC 62040-1:2019 For National Differences see corresponding Attachment	
Use of uncertainty of measurement for decisions on conformity (decision rule) : <input checked="" type="checkbox"/> No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method"). <input type="checkbox"/> Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)	
Information on uncertainty of measurement: The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE. IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer. Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.	

Copy of marking plate
N/A

Test item particulars :	
Classification of installation and use..... :	<input checked="" type="checkbox"/> Ordinary Person <input type="checkbox"/> Instructed Person <input type="checkbox"/> Skilled Person
Supply Connection :	<input checked="" type="checkbox"/> pluggable equipment <input checked="" type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input checked="" type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord
Environmental category..... :	<input checked="" type="checkbox"/> indoor <input type="checkbox"/> unconditional <input type="checkbox"/> conditional <input type="checkbox"/> outdoor
Equipment mobility..... :	<input checked="" type="checkbox"/> movable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> fixed
Access location :	<input checked="" type="checkbox"/> ordinary person accessible <input type="checkbox"/> restricted access location
Over voltage category..... :	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV
Mains supply tolerance (%) :	For model BR550GXYYYYYY: 230Vac \pm 10%; Client declared the tolerances of input / output voltage as 220Vac -5.9% and 240Vac +5.1% For model BR650MXYYYYYY, BR900MXYYYYYY: Client declared the tolerances of input / output voltage as 220Vac -10% and 240Vac +6%
Tested for power systems.....	TN
IT testing, phase-phase voltage (V)	230V (for Norway)
Class of equipment	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III
Considered current rating of protective device as part of the building installation (A)	16A
Pollution degree (PD).....	<input type="checkbox"/> PD1 <input checked="" type="checkbox"/> PD2 <input type="checkbox"/> PD3
IP protection class	IPX0
Elevation during operation (m).....	2000m
Elevation of test laboratory (m).....	Below 1000m
Mass of equipment (kg)	For model BR550GXYYYYYY: 6.7 For model BR650MXYYYYYY: 6.8 For model BR900MXYYYYYY: 7.2
Possible test case verdicts:	
- test case does not apply to the test object	: N/A
- test object does meet the requirement	: P (Pass)
- test object does not meet the requirement	: F (Fail)
Testing :	
Date of receipt of test item..... :	N/A
Date (s) of performance of tests..... :	N/A

General remarks:

"(See Enclosure #)" refers to additional information appended to the report.
 "(See appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

☐ This Test Report Form contains requirements according to IEC/ISO Standard dated and includes Corrigendum dated

(Note: The above text maybe removed if not applicable)

Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60068-2-1:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided

☒ Yes

☐ Not applicable

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies)..... : 1. International Precision Assemblies, Inc.
 Block 22, Lot 7 & 9 Phase 4, CEPZA, Rosario, Cavite, 4106 Philippines
 2. International Precision Assemblies, Inc. Plant 2
 Lot 2, Blk 17, Phase IV Peza Rosario Cavite 4106, Philippines
 3. American Power Conversion (India) Pvt. Ltd.
 187/3, 188/3, Jigani, Anekal, Bangalore 562106, India
 4. International Precision Assemblies, Inc.
 Lot 6, Blk 8, Phase II Peza, Rosario Cavite 4106, Philippines
 5. Fuhong Precision Component (Bac Giang) Company Limited
 Lot P (P1) and P (P2), Quang Chau Industrial Park, Viet Yen District, 220000 Bac Giang Province, Vietnam
 6. Danam Philippines, Inc.
 Lot 1-A, Block 15, Phase III, PEZA Rosario, Cavite 4106 Philippines

General product information and other remarks:**Description of change(s):**

1. Add alternative approved Relay (RY1, RY3, RY4) with the higher rated current and voltage.

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1.	N/A	See appended table Critical components information for details. No tests considered necessary.

Definition of variables:

BR550GXXXXXX, BR650MXXXXXXX, BR900MXXXXXXX (X = I or hyphen; Y = any alphanumeric, +, *, #, _, hyphen or blank)

Variable:	Range of variable:	Content:
X	Can be "I" or hyphen	For marketing purpose used only, no any technical consider.
Y	Can be any alphanumeric, "+", "*", "#", "_", hyphen or blank	For marketing purpose used only, no any technical consider.

History of amendments and modifications:

Ref. No. CN21KH8H 001, dated 25 Mar., 2022 (original test report)

Ref. No. CN21KH8H 002, dated 30 Apr., 2022 (modification)

IEC 62040-1			
Clause	Requirement + Test	Result - Remark	Verdict

TABLE: Critical components information						P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Unit:						
Relay (RY1, RY3, RY4)	Song Chuan	845HN-1C-C	Contact: 250V, 10A Coil: 12Vdc, 270Ω, class A	IEC/EN 61810-1	TUV	
	Good Sky	MI-SS-112L	Contact: 250V, 10A Coil: 12Vdc, 270Ω, class A	IEC/EN 61810-1	VDE	
	SHENZHEN GOLDEN	GO-1C-12H	Contact: 250V, 12A Coil: 12Vdc, 270Ω, class F	IEC/EN 61810-1	TUV	
	Xiamen Hongfa	HF115FK	Contact: 277V, 12A Coil: 12Vdc, 270Ω, class F	IEC/EN 61810-1	VDE	
Supplementary information:						
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.						