



Ref. Certif. No.

**JP-21769-M2-UL**

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

**CB TEST CERTIFICATE**

Product  
Switching Power Supply

Name and address of the applicant  
NIPRON CO LTD  
2-57 OHAMA-CHO AMAGASAKI-SHI HYOGO-KEN 660-0095 JAPAN

Name and address of the manufacturer  
NIPRON CO LTD  
2-57 OHAMA-CHO AMAGASAKI-SHI HYOGO-KEN 660-0095 JAPAN

Name and address of the factory  
NIPRON CO LTD  
2-57 OHAMA-CHO AMAGASAKI-SHI HYOGO-KEN 660-0095 JAPAN

Note: When more than one factory, please report on page 2

Ratings and principal characteristics  
See Page 2

Trademark / Brand (if any)  
None

Customer's Testing Facility (CTF) Stage used

Model / Type Ref.  
See Page 2

Additional information (if necessary may also be reported on page 2)  
The report was revised to include technical modifications.  
Additionally evaluated to EN 62368-1:2014/ A11:2017.  
National Differences specified in the CB Test Report.

A sample of the product was tested and found to be in conformity with  
☒ Additional Information on page 2

As shown in the Test Report Ref. No. which forms part of this Certificate  
IEC 62368-1:2014  
☒ Additional Information on page 2 & 3  
E161936-A6020-CB-1 issued on 2023-10-03

This CB Test Certificate is issued by the National Certification Body



☐ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA  
☐ UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK  
☒ UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN  
☐ UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2023-10-04  
Original Issue Date: 2020-05-26

Signature: *M. Takagi*  
Masamichi Takagi



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**Factory(ies):**

NIPRON CO LTD  
282-17 Nishiyama Taki-cho Taki-gun Mie 519-2171  
JAPAN

**Model Detail(s):**

HNSP9-520PX and HPCSA-570PX ('X' = Where X maybe maximum 50 characters, - or space or 0 to 9 or A to Z, except first alphanumeric -X2S5 and -S27 and last alphanumeric 24V and 48V)  
HNSP9-520PX24V, HPCSA-570PX24V, HNSP9-520PX48V, and HPCSA-570PX48V ('X' = Where X maybe maximum 50 characters, - or space or 0 to 9 or A to Z, except first alphanumeric -X2S5 and -S27)  
HPCSA-570P-X2S5\* ('\*' = Where \* maybe maximum 50 characters, - or space or 0 to 9 or A to Z)  
HNSP9-520P-S27(X)(a)-H6V\* ('(X)' = Where (X) maybe blank or 1, '(a)' = Where (a) maybe blank or A, '\*' = Where \* maybe Maximum 10 characters, 0-9 or A-Z or - or blank)

**Ratings:**

Model HNSP9-520PX

Input: 100-240V~, 4.8-2.1A, 50/60Hz

Output:

CH1: 3.3 Vdc, maximum 20 A, peak 30 A

CH2: 5 Vdc, maximum 24 A, peak 30 A

CH3: 12 Vdc, maximum 30 A, peak 35 A

CH4: -12 Vdc, maximum 0.5 A, peak 0.5 A

CH5: 5 VSB, maximum 2 A, peak 2.5 A

Peak: maximum 5 seconds

Interval: 45 seconds

Total Wattage: 400 W maximum (CH1+CH2: 150 W maximum, CH3: 360 W maximum, CH4: 6 W maximum, CH5: 10 W)

Total Peak Wattage: 520 W maximum (CH1+CH2: 200 W maximum, CH3: 420 W maximum, CH4: 6 W maximum, CH5: 12.5 W)

For other models, see test report.

**Summary of Modifications:**

- Change factory address as below.

From: 3249 OIZU INDUSTRIAL PARK IN OYODO KOGYO DANCHI OAZA-YAMAOIZU AZA-NAKAJIMA MEIWA-CHO TAKI-GUN MIE-KEN 515-0303 JAPAN

To: 282-17 Nishiyama Taki-cho Taki-gun Mie 519-2171 JAPAN

- Change capacity of X-Capacitor (C401), from "maximum 0.47uF" to "0.47uF".

- Addition of alternate Connector (CN402), Type H, Series NH.

- Correction of Type name of CN402, from Type HVQ to Type H due to typo.

- Correction of Type name of CN101, from Type HVQ to Type H due to typo.

- Change capacity of X-Capacitor (C102), from "maximum 1.0uF" to "0.47 to 1.0uF".

- Change of Manufacturer name of Inductor (LF103), from "Nipron Co., Ltd., Excel King Japan Ltd., JFE Ferrite Corporation or Ueno Co., Ltd." to "Nipron Co., Ltd."

**Additional information (if necessary)**



☐ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA  
☐ UL Solutions (Denko), Borupvang 5A DK-2750 Ballerup, DENMARK  
☒ UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN  
☐ UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

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- Correction of technical data of Bleeder Resistor (R122, R124), Type HV73, from "0.75W, 100kohm" to "0.5W, 100kohm".
- Addition of alternate FET (Q121), Type TK2P90E.
- Change of Manufacturer name of Coil (L101), from "Nipron Co., Ltd., TAMURA CORPORATION, Toho Zinc Co., Ltd., Furukawa Denshi Co., Ltd., Tohsei Industrial Co., Ltd." to "Nipron Co., Ltd."
- Change Core Case of Coil (L101) to optional.
- Change of Manufacturer name of Transformer (T101), from "See Enclosure Id. 07-04 for details." to "Nipron Co., Ltd."
- Change of Manufacturer name of Transformer (T102), from "See Enclosure Id. 07-05 for details." to "Nipron Co., Ltd."
- Correction of Type name of WH101, from Type VH to Type H due to typo.
- Correction of Type name of CN102, from Type XH to Type H due to typo.
- Correction of Type name of CN103, from Type XH to Type H due to typo.
- Correction of type of Optical Isolators (PC101, PC102, PC103, PC104, PC201, PC202), from "PS2561A-1" to "PS2561AL-1".
- Addition of alternate Optical Isolators (PC101, PC102, PC103, PC104, PC201, PC202), Types PS2561DL-1, TLP781, and LTV-816.
- Correction of Type name of CN201, from Type VH to Type H due to typo.
- Addition of alternate Insulation Tape, Types 630F3 #50, 631S3 #50, and 632S3 #50 in Transformer (T201), Types MT6101 X and MT6144 X, and in Transformer (T202), Types MT6099 X and MT6143 X, and in Transformer (T203), Type MT6100 X.
- Addition of alternate Margin Tape, Type 44-A in Transformer (T201), Types MT6101 X and MT6144 X, and in Transformer (T202), Types MT6099 X and MT6143 X, and in Transformer (T203), Type MT6100 X.
- Deletion of Margin Tape, Type 630F in Transformer (T201), Types MT6101 X and MT6144 X, and in Transformer (T202), Types MT6099 X and MT6143 X, and in Transformer (T203), Type MT6100 X, and Transformer (T101), Type MT1619 X.
- Correction of Technical data of T202, from Two layers to One layer.
- Change of Manufacturer name of Transformer (T203), from "See Enclosure Id. 07-08 for details." to "Nipron Co., Ltd."
- Addition of alternate Insulation Tape, Type 1318Y-1 in Transformer (T203), Type MT6100 X.
- Addition of alternate Triple Insulation Wire, Type TRW(F) in Transformer (T203), Type MT6100 X.
- Addition of alternate Fan, Type MMF-08N12DS.
- Deletion of Insulation Tape, Type 371F in Transformers (T101), Types MT1610 X and MT1619 X.
- Deletion of Margin Tape, Type 850F in Transformer (T101), Type MT1619 X.
- Addition of alternate Bobbin, Type T375HF in Transformer (T101), Type MT1610 X.
- Correction of Type of Insulation Tape, from "630F2" to "630F3", from "631S2" to "631S3", from "632S2" to "632S3" in Transformers (T101), Type MT1610 X.
- Addition of tropical climatic condition consideration.
- Replacement of Enclosure Id. 07-05 (Transformer (T102) Specifications (Type DT6027 X)).
- Minor correction of table 4.1.2 not affecting safety.

**Additional information (if necessary)**

- ☐ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☐ UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- ☒ UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
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