



TEST REPORT IEC 60601-1

Part 1: General requirements for basic safety and essential performance

Report Number. E349607-D1-CB-2

Date of issue: 2017-04-21

Total number of pages..... 228

Name of Testing Laboratory

UL International Polska Sp. z o.o.

preparing the Report....... Aleja Krakowska 81, 05-090 Sekocin Nowy, Poland

Applicant's name...... TDK-LAMBDA UK LTD

Applicant's name.....

Address KINGSLEY AVE

DEVON

EX34 8ES UNITED KINGDOM

Test specification:

Standard.....: IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2

(2007) + AM1 (2012) or IEC 60601-1 (2012 reprint)

Test procedure CB Scheme

Non-standard test method: N/A

Test Report Form No...... IEC60601_1J_PS

Test Report Form(s) Originator: UL(US)

Master TRF...... 2014-09

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This report is not valid as a CB Test Report unless signed by an approved CB 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 CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

	T			
Test item description:	Switch Mode Power S	upply		
Trade Mark:	TDK·Lambda	TDK·Lambda		
Manufacturer:	TDK-Lambda UK Ltd			
	Kingsley Avenue			
	Ilfracombe			
	North Devon			
	EX34 8ES, United Kin	gdom		
Model/Type reference:	NV700 or NV-700 Rar NV700 Range model	nge (see Model Differences for details of configurations)		
Ratings:	NV700 or NV-700 Rar	nge		
	100-240Vac nominal ((90-264V max. tolerance),		
	47-63Hz,			
	11A rms Max			
	(see Model Difference	es for details of model ratings)		
	Risk Management pro	ocess not evaluated		
Testing procedure and testing location:				
	UL International Polsk			
Testing location/ address	. Aleja Krakowska 81, 05-090 Sekocin Nowy, Poland			
Associated CB Testing Laboratory:				
Testing location/ address				
Tested by (name + signature)	. Wojciech Czerniak	W. Czerniak		
3.9	(Project Handler)	W. Czernow		
Approved by (name + signature)				
prioriog by (i.d.iio - digitation) illinois	(Reviewer)			
☐ Testing procedure: TMP/CTF Stage				
1:				
Testing location/ address	···			
Tested by (name + signature)				
Approved by (name + signature)				
Testing procedure: WMT/CTF Stage 2:				
Testing location/ address				

Tes	ted by (name + signature)	:	
Witr	nessed by (name + signature)		
App	roved by (name + signature)		
	Testing procedure: SMT/CTF Stage 3 or 4:		
Tes	ting location/ address		
Tes	ted by (name + signature)		
Witi	nessed by (name + signature)		
	proved by (name + signature)		
	pervised by (name + signature)		
-			

List of Attachments (including a total number of pages in each attachment):

Marking Plate (1 page)

Photographs (9 pages)

Diagrams (14 pages)

Schematics + PWB (18 pages)

Manuals (29 pages)

Miscellaneous (2 pages)

Licenses (10 pages)

Summary of testing

Tests performed (name of test and test clause):

Testing location:

All applicable tests were performed under previous evaluations.

See CB Test Report E349607-D1 dated 2015-02-16.

Summary of compliance with National Differences

List of countries addressed: AT, BE, BG, BY, CA, CH, CN, CZ, DE, DK, ES, EU, FI, FR, GB, GR, HU, IE, IL, IT, JP, KR, NL, NO, PL, PT, RO, SE, SK, UA, US

☑ The product fulfils the requirements of EN 60601-1:2006/ A11:2011/ A1:2013/ A12:2014 (insert standard number and edition and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable)

Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



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IECIENINTICZY60820-1 & 103) ZHQbb-16 100-240Vac nom ınduj



NV7238DS

Wer TDK-Lambda

www.emea.tdk-lambda.com

can ce

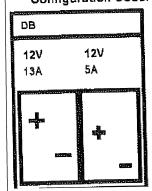
Made in the UK 11-Mar-13

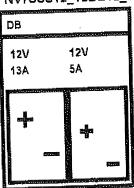


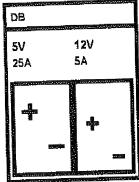


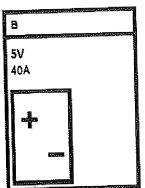
Refer to www.emea.tdk-lambda.com for installation manual. For Test Certificate: Refer to http://testcert.emea.tdk-lambda.com

NV7SSS12_12DB12_12DB5_12DB5B Configuration Code:









GENERAL INFORMATION				
Test item particulars (see also Clause 6):				
Classification of installation and use:	For building-in			
Device type (component/sub-assembly/ equipment/ system):	Component Power Supply			
Intended use (Including type of patient, application location) :	To provide DC power for electronic circuits within medical equipment			
Mode of operation	Continuous			
Supply connection	For building in			
Accessories and detachable parts included	N/A			
Other options include	N/A			
Testing				
Date of receipt of test item(s)	2014-05-21 to 2014-10-01			
Dates tests performed	2014-06-09 to 2014-10-02			
Possible test case verdicts:				
- test case does not apply to the test object	N/A			
- test object does meet the requirement	Pass (P)			
- test object was not evaluated for the requirement:	N/E (collateral standards only)			
- test object does not meet the requirement	Fail (F)			
Abbreviations used in the report:				
- normal condition N.C.	- single fault condition: S.F.C.			
- means of Operator protection MOOP	- means of Patient protection : MOPP			
General remarks:				
"(See Attachment #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. The tests 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 testing laboratory. List of test equipment must be kept on file and available for review. Additional test data and/or information provided in the attachments to this report.				
Throughout this report a \square comma / \boxtimes point is used as the decimal separator.				
This Test Report Form is intended for the investigation of power supplies in accordance with IEC 60601-1:2005, 3 rd edition + AM1. The Risk Management was excluded from the investigation; this shall be clearly identified in this report and on the accompanying CB Test Certificate.				
Additional test data and/or information may be provided in the at	ttachments to this report.			

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:2012			
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 th	e General product information section.		
Name and address of factory (ies):			
	Factory ID (478831-002):		
	TDK-Lambda UK Ltd		
	Kingsley Avenue		
	Ilfracombe		
	Devon		
	EX34 8ES		
	Made in UK		
	Factory ID (477652-002):		
	Panyu Trio Microtronic Co. Ltd		
	Shiji Industrial Estate		
	Dongyong		
	Nansha		
	Guangzhou, Guangdong, China		
	Made in China T		
General product information:			

The NV700 products are switched mode power supplies for building into host equipment. They are not intended to be accessible to an operator. However, if any surface of the product is accessible further tests may be necessary in the end application. Risk Management has not been applied to these products.

This product range is available as a forced air cooled version (in-built fan) with screw terminal input connections or an IEC 60320 Inlet. It is also available as a customer air cooled version where the end cap is not fitted and the customer must provide an air flow and measure appropriate temperatures of components within the product.

This Test Report is a reissue of CB Test Report E349607-D1 dated 2015-02-16 with CB Test Certificate DK-44454-UL.

This reissue involves the following changes:

- Alternate Y1 capacitors (C5, C6, Č7) added to the critical components list. Their licences added to the enclosures.
- TRF changed to 1J_PS (form 1J).
- Enclosures revised.
- CBTL changed to UL International Polska.

Based on previously conducted testing and the review of product technical documentation including photos, schematics, wiring diagrams and similar, it has been determined that the product continues to comply with the standard.

No additional tests were deemed necessary for this reissue.

Model Differences:

NV700 models as described below:

Units may be marked with a Product Code: K7x or NV7x where x may be up to any six letters and/or numbers 0 to 9.

Unit Configuration (Description:) Code may be prefixed by NS # followed by / or - (where # may be any characters indicating non- safety related model differences).
Unit Configuration (Description:) Code:

- a) NV-700 or NV7 (these models are identical)
- b) followed by: S or C

where S = Forward airflow, standard fan

C = Customer air, fan not fitted

U = Customer air, fan not fitted, cover not fitted

c) followed by: S or I

where S = Screw input terminals

I = IEC input

d) followed by: S, M, L, R, or T

where S = Standard Leakage (Filter)

M = Medium Leakage

L = Low Leakage

R = Reduced Leakage

T = Tiny Leakage

Unit configuration may be given using the above code and/or by the option description. The input terminal type (screw or IEC) may alternatively be determined by examination of the unit.

e) optionally followed by: EN#V, EN*V, IN#V, IN*V, ES#V, ES*V, IS#V, IS*V.

where EN#V = AC good, global module good, PSU enable, 5-5.5V, 2A standby output

EN*V = AC good, global module good, PSU enable, 12-13.5V, 1A standby output

IN#V = AC good, global module good, PSU inhibit, 5-5.5V, 2A standby output

IN*V = AC good, global module good, PSU inhibit, 12-13.5V, 1A standby output

ES#V = AC good, PSU enable, $\tilde{5}$ -5.5V, 2A standby output

ES*V = AC good, PSU enable, 12-13.5V, 1A standby output

IS#V = AC good, PSU inhibit, 5-5.5V, 2A standby output

IS*V = AC good, PSU inhibit, 12-13.5V, 1A standby output

where # represents the standby output voltage and is in the range 5 to 5.5V where * represents the standby output voltage and is in the range 12-13.5V

The Global Options Inhibit and Enable functions permit the customer to turn off or on the main psu outputs and the fan. The standby supply is for use by the customer and provides an SELV output that continues to operate when all the main psu outputs have been turned off using the Inhibit or Enable functions. All the functions of the Global Option pass through a single 8 way PWB socket and are all rated SELV.

Modules:

Up to 4 of the following modules types may be fitted:

@B

or

or

@C @CM

@BH or

where @ is the output voltage of the module and is within the range given in the single output module table.

@/#DB or @ #DB or

where @ is the output voltage of channel 1 and # is the output voltage of channel 2 of the module. Voltages are within the range given in the DB module tables.

@/#DA or @ #DA

where @ is the output voltage of channel 1 and # is the output voltage of channel 2 of the module. Voltages are within the range given in the DA module tables. Only 1 DA module may be fitted.

B/S or B_S Or

where B/S or B S indicates that a blanking plate is fitted in place of a module.

The following nomenclature may optionally be used for outputs connected in series: (Note that outputs may be connected in series even when this nomenclature is not used)

@BB or @ BHB or @BBH or @BHBH or @CC or @CCM

where @ is the total voltage of any two B, BH, C or CM modules connected in series.

@/#BDB or @ #BDB or @BHDB

where @ is the total series voltage of any B or BH module and DB module channel 1. # is the output voltage of the DB module channel 2. Voltages for # are within the range given in the DB module tables.

@HDB or

where @ is the total series voltage of any DB module channel 1 and channel 2.

For all outputs connected in series:

Permissible min. value for @ is given by summing the min. voltage ratings of the outputs connected in

Permissible max. value for @ is given by summing the max. voltage ratings of the outputs connected in series.

Custom Models:

Model: NV-700 RSS IN5V 12BH 12BH

Maximum outputs: 12.5V, 20A; 12.5V, 20A (total power 500W max.)

Maximum ambient: 65°C with 2.5%/°C derating of total power and module current above 50°C Orientations: Horizontal with chassis lowest, on either side or vertical with the airflow upwards. Comments: PSU has reverse air.

Model: NV-700 CSS ES5V 12C (NV722DCC and NV7Y019T)

Maximum output: 12V, 37.5A (peak power rating as given in electrical and thermal ratings section on

following page)

Maximum ambient: 65°C with 2.5%/°C derating of total power and module current above 50°C Orientations: Horizontal with chassis lowest, on either side or vertical with the airflow upwards. Maximum operating altitude: 5000m

Output Interface Assembly:

One of the following output interface assemblies may optionally be fitted:

Wxxx

where xxx is a number between 001 and 999. These assemblies attach to the module output(s) and contain circuitry providing one or more of the following: current sharing, reduced current limit, fusing, sequencing, diode or-ing, module good, filtering, connectors or terminal blocks for outputs or signalling purposes, indicator lamps or LEDs.

Documentation to be made available to the customer detailing ratings of all assembly outputs.

ELECTRICAL AND THERMAL RATINGS

Nominal Input Voltage
Input Voltage Range
Input Frequency Range
Maximum Input Current

100 - 240 Vac
90 - 264 Vac #
47 - 63 Hz
11 A rms

Subject to limitations, see table below.

Code	Cooling Option	Input Voltage) Range (Vac)	Total output power (W)	Maximum ambient (°C)	Derating †
S	Forward airflow standard fan	90 - 99.9	700W continuous (850W peak if 700W average #)	65	2.5% per °C above 45°C
S	Forward airflow standard fan	100 - 149.9	700W continuous (850W peak if 700W average #)		2.5% per °C above 50°C
S	Forward airflow standard fan	150 - 264	1150W continuou: (1450W peak if 1150W average #		2.5% per °C above 45°C
C, U‡	Customer air	Refer to Customer	r Air Cooling sectior	n for details	

fan not fitted

- ‡ Global Option standby outputs (12-13.5V at 1A or 5-5.5V at 2A) should not be included when calculating total PSU output power.
- † The total output power, module output currents and Global Option output currents are derated by the given value.
- # The PSU may output the given peak power for up to 10 seconds providing that the average power from the PSU does not exceed the stated value.

Global Options with output voltages between 5.01 and 5.5V have their max. output current linearly derated from 2A at 50°C ambient to 1.4A at 65°C ambient.

Permitted orientations: Horizontal with chassis lowest, on either side or vertical with the airflow upwards.

Single Output Modules:

Module	Nominal Voltage (V)	Voltage Range (V) #	Max. Current
В	3.3 5	3.135 - 3.6 4.75 - 5.5	40A 4.75 - 5.0V: 40A 5.0 - 5.5V: Linearly derate from 40 to 36A
	8	7 – 9	7 - 8V: 22.5A 8 - 9V: Linearly derate from 22.5 to 20A
	12	12 - 15.5	12 - 12.5V: 19.5A 12.5 - 15.5V: Linearly derate from 19.5 to 15A
	24	24 - 28	24V: 10A 24 - 28V: Linearly derate from 10 to 8A
вн	12	12 - 15.5	12 - 12.5V: 20A 12.5 - 15.5V: Linearly derate from 20 to 15.5A
	24	24 – 28	24V: 10A 24 - 28V: Linearly derate from 10 to 8.5A
C & CM †	12	12 - 13.2	12V: 37.5A. Derated to 450W above 12V
	16	15 - 17.6	15 - 16V: 28.12A. Derated to 450W above 16V
	24	24 - 26.4	24V: 18.75A. Derated to 450W above 24V
	30	27 - 32	27V: 16.67A. Derated to 450W above 27V

[†] C & CM modules may output up to 600W for up to 10 seconds providing that the average power from the module does not exceed 450W.

Dual Output Modules:

Dual Output Modules, Output 1

Module	Nominal Voltage (V)	Voltage Range (V) #	Max. Current
DA DB	12 3.3 5 6 ‡ 12	12.25 3.135 - 3.6 4.75 - 5.5 5.5 - 6.5 12 - 15.5	3A 25A 25A 25A 12 - 12.5V: 13A 12.5 - 15.5V: Linearly derate from 13 to 10A
	24	24 - 28	24 - 25V: 7A

Dual Output Modules, Output 2			25 - 28V	: Linearly derate from 7 to 6A
Module	Nominal Voltage (V)	Voltage Range (V) #	Max. Current(A)	Max. Power(W)
DA DB	12 5 12 24	(-)11.6 - (-)11.9 3.3 - 6 7 - 15.5 24 - 32	1 10 5 2	11.9 60 60 50

[#] Voltage measured at the module power terminals. This voltage must not be exceeded when remote sense is used.

‡ DB modules with 6V nominal channel 1 derated as follows:

Ch.1: 5.5 - 6V Ch.1 + Ch.2: 195W total. Ch.1: 6.01 - 6.5V Ch.1 + Ch.2: 170W total.

The DB module may be used with output 1 up to 24V at 8.3A and output 2 up to 16V at 3.13A provided the ambient temperature does not exceed 42°C.

SELV and Outputs Connected In Series:

All individual outputs are SELV. Outputs connected in series are non-SELV if the total output voltage + 30% of the highest of those outputs exceeds 60Vdc (the 30% addition allows for a single fault in any one individual channel).

If the total voltage of outputs connected in series exceeds the 60Vdc SELV limit then all outputs must be considered non-SELV.

The total voltage of outputs connected in series must not exceed 160V.

Non-SELV outputs are hazardous and must be guarded or a deflector fitted during installation to avoid a service engineer making inadvertent contact with the output terminals, or dropping a tool onto them. All outputs have operational spacings to earth, and due consideration must be given to this in the end product design.

Additional Information

Customer Air Cooling:

The following method must be used for determining the safe operation of PSUs when C or U options (Customer Air) are fitted, i.e. fan not fitted to PSU. The minimum permitted airflow for customer air cooling is 0.5m/s.

For PSUs and assemblies cooled by customer supplied airflow the components listed in the following table must not exceed the temperatures given. Additionally ratings specified for units with an internal fan shall still be complied with, e.g. mains input voltage range, maximum output power, module voltage / current ratings and maximum ambient temperature. To determine the component temperatures the heating tests shall be conducted in accordance with the requirements of IEC60601-1. Consideration should also be given to the requirements of other safety standards.

Test requirements include: PSU/assembly to be fitted in its end-use equipment and operated under the most adverse conditions permitted in the end-use equipment handbook/specification and which will result in the highest temperatures in the PSU/assembly. To determine the most adverse conditions consideration shall be given to the end use equipment maximum operating ambient, the PSU/assembly loading and input voltage, ventilation, end use equipment orientation, the position of doors & covers, etc. Temperatures shall be monitored using type K fine wire thermocouples (secured with cyanoacrylate adhesive, or similar) placed on the hottest part of the component (out of any direct airflow) and the equipment shall be run until

all temperatu	res have stabilised.	Max	
Circuit Ref.	Description	Temperature (°C)	
L2, L3 C1, C3, C4 L1 C12, C13 T1 RL1 TX1, TX2 L1, XL1 L1 T2 Various Various Various	Filter/PFC assy: Choke winding Filter/PFC assy: X capacitors Filter/PFC assy: Boost choke winding Filter/PFC assy: Electrolytic capacitor Filter/PFC assy: Flyback transformer winding Filter/PFC assy: Relay Modules: Power transformer windings B, BH & DB module chokes C & CM module chokes C & CM module chokes Global Options: Transformer winding All other choke & transformer windings All <=10mm diameter electrolytic capacitors All 12.5mm diameter electrolytic capacitors	155 100 130 105 130 100 130 125 140 130 110	
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The schematics are kept in file at the CBTL and can be provided by the manufacturer upon request by NCB's/CBTL's.

These power supplies have been previously evaluated by UL to Edition 3 IEC 60601-1: 2005, EN60601-1: 2006, ANSI/AAMI ES60601-1: 2005, CAN/CSA C22.2 No. 60601-1: 2008 based on the previous Edition 2 IEC 60601-1:1988 + A1:1991 + A2:1995, EN 60601-1: 1990 + A1:1993 + A2:1995, UL 60601-1, 1st Edition, 2006-04-26 (includes National Differences for USA), CAN/CSA-C22.2 No. 601.1-M90 (R2005) (includes National Differences for Canada), report reference E349607-D1-CB-1 (CB Test Certificate Ref. No. DK-5230 dated 29-NOV-2011 was prepared by UL International Demko A/S).

CB Test certificates for components are included in Licenses Enclosure. In accordance with the current rules of CB Scheme, CB Test certificate is effective for 3 years. Recognizing NCB may challenge the CBTC when certificates are more than 3 years old.

When submitting this Test Report to other Certification Body, the manufacturer is responsible for providing any additional information that the Body may need in order to issue its Mark, including testing for compliance with the applicable collateral standards.

Technical Considerations

The product was investigated to the following additional standards:

EN 60601-1:2006 + A11:2011 + A1:2013 + A12:2014

ANSI/AAMI ES60601-1: A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012,

CSA CAN/CSA-C22.2 NO. 60601-1:14

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).

Scope of Power Supply evaluation defers the following clauses to be determined as part of the end product investigation:

Clause 7.5 (Safety Signs),

Clause 7.9 (Accompanying Documents),

Clause 9 (ME Hazard), except 9.1 and 9.3 are evaluated,

Clause 10 (Radiation),

Clause 14 (PEMS),

Clause 16 (ME Systems)

Risk Management was excluded from this investigation

- The degree of protection against harmful ingress of water is: Ordinary
- 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 is classified only to the following hazards: shock, fire, casualty
- Product evaluated for an operating temperature of 50°C (full load), to 65°C maximum
- The product has been assessed for an altitude of 5000 m.
- Multilayer PWBs accepted under CBTR Ref. No. E349607-A23 dated 2014-07-31 and letter report in enclosure 8-07 of this report.

Engineering Conditions of Acceptability

When installed in an end-product, consideration must be given to the following:

- For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.
- 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)
- Considerations to the applied part requirement, to be conducted as part of the end-product evaluation.
- The input/output connectors are not acceptable for field connections; they are only intended for factory wiring inside the end-use product
- The component shall be installed in compliance with the enclosure, mounting, marking, spacing and separation requirements of the end use application.

- Temperature, leakage current, protective earthing, dielectric voltage withstand and interruption of power supply tests should be considered as part of the end product evaluation.
- Proper bonding to the end-product main protective earthing is required.
- The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tmra) of 50°C at full load and 65°C maximum (see model configuration and output details for models and conditions to which the extended ambient applies).
- The products were tested on a 16 A (20 A for North America and Canada) branch circuit.
- 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 simultaneous fault condition testing.
- End product risk management process to consider the need for different orientations of installation during testing.
- End product to determine the acceptability of risk in conjunction to insulation to resistance to heat, moisture and dielectric strength
- Insulation (separation) between primary secondary output circuits: 2 MOOPs
- Insulation (separation) between primary to earth: 1 MOPP
- Insulation (separation) between secondary circuits and earth: 1 MOPP (at working voltage) for CM module and 1 MOOP for all other modules.
- Insulation (separation) between input and output for CM modules: 2 MOPPs at 4000 m only
- The following outputs are considered SELV: All outputs are SELV except under the following circumstance:- Outputs connected in series are non-SELV if the total output voltage + 30% of the max. rated output voltage of the output with the highest rated voltage exceeds 60Vdc (the 30% addition allows for a single fault in any one individual channel).
- Consideration should be given to repeating the earth leakage tests in the end use equipment.
- Except for permanently installed equipment, the overall equipment in which these products are installed must be fitted with double pole fusing as detailed in the special instructions section of the NV700 handbook
- It should be noted that the power supplies have been assessed as a component part of end equipment. It is the installer's responsibility to ensure that the final installation is in accordance with the NV700 handbook and that it is in compliance with the 60601-1 standards.
- The following outputs are considered an energy hazard and must not be accessible to an end user:-12BH, 24BH, 12C, 16C, 24C, 30C, 12CM, 16CM, 24CM and 30CM.
- These power supplies have been assessed as a component part of a host equipment.

•	This product must be earthed (class I).	١
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