Ref. Certif. No.

DE 3 - ITAV2001

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

CB TEST CERTIFICATE

Product	Audio/Video, Information and Communication technology equipment Power Supply
Name and address of the applicant	**Integrated Power Designs, Inc.** **Hanover Industrial Estates** 300 Stewart Road Wilkes-Barre PA 18706 USA
Name and address of the manufacturer	Integrated Power Designs, Inc. Hanover Industrial Estates 300 Stewart Road, Wilkes-Barre PA 18706, USA
Name and address of the factory	Integrated Power Designs, Inc. Hanover Industrial Estates 300 Stewart Road, Wilkes-Barre PA 18706, USA
Ratings and principal characteristics	Rated Input Voltage: 100-240 VAC Rated Frequency: 50/60 Hz Rated Input Current: see chart Protection Class: I Degree of Protection: IPX0
Trademark / Brand (if any)	IPD
Customer's Testing Facility (CTF) Stage used	CTF STAGE 3
Model/type Ref.	**NXT Series**
Additional information (if necessary)	Certificate DE 3 – ITAV issued 2020-07-30 is replaced by this version due to technical changes
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014
as shown in the Test Report Ref. No. which forms part of this certificate	72117359-300

This CB Test Certificate is issued by the National Certification Body

CB 030824 0341 Rev. 03

Date, 2024-08-01

(William J. Stinson)

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Model	Input Current
NXT-100	2.5 A max
NXT-175	5 A
NXT-225	5 A
NXT-325	8 A
NXT-400	10 A
NXT-400M	8 A max
NXT-700	12.0 A max
NXT-1000	16.0 A max

Model Numbers and Output Ratings:

Model Number	Open Frame		Chassis/Cover		Transformer (6000XXX)
	300LFM	Conv. Cooled	300LFM	Conv. Cooled	
NXT-100-1001	2.5V/20A	2.5V/14A	2.5V/18A	2.5V/12.6A	861
NXT-100-1002	3.3V/20A	3.3V/14A	3.3V/18A	3.3V/12.6A	862
NXT-100-1003	5V/20A	5V/14A	5V/18A	5V/12.6A	863
NXT-100-1004	12V/8.3A	12V/5.8A	12V/7.5A	12V/5.2A	864
NXT-100-1005	15V/6.7A	15V/4.7V	15V/6.0V	15V/4.2A	865
NXT-100-1006	24V/4.2A	24V/2.9A	24V/3.8A	24V/2.6A	866
NXT-100-1007	28V/3.6A	28V/2.5A	28V/3.2A	28V/2.3A	867
NXT-100-1008	48V/2.1A	48V/1.5A	48V/1.9A	48V/1.4A	868
NXT-175-1001	2.5V/35.0A	2.5V/23.0A	2.5V/31.5A	2.5V/20.7A	836
NXT-175-1002	3.3V/35.0A	3.3V/23.0A	3.3V/31.5A	3.3V/20.7A	837
NXT-175-1003	5V/35.0A	5V/23.0A	5V/31.5A	5V/20.7A	838
NXT-175-1004	12V/14.6A	12V/9.6A	12V/13.1A	12V/8.6A	839
NXT-175-1005	15V/11.7A	15V/7.7A	15V/10.5A	15V/6.9A	840
NXT-175-1006	24V/7.3A	24V/4.8A	24V/6.6A	24V/4.3A	841
NXT-175-1007	28V/6.3A	28V/4.1A	28V/5.6A	28V/3.7A	842
NXT-175-1008	48V/3.6A	48V/2.4A	48V/3.2A	48V/2.2A	843
NXT-225-1001	2.5V/53.0A	2.5V/30.0A	2.5V/47.7A	2.5V/27.0A	828
NXT-225-1002	3.3V/53.0A	3.3V/30.0A	3.3V/47.7A	3.3V/27.0A	829
NXT-225-1003	5V/45.0A	5V/30.0A	5V/40.5A	5V/27.0A	830

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NXT-225-1004	12V/18.8A	12V/12.5A	12V/16.9A	12V/11.3A	831
NXT-225-1005	15V/15.0A	15V/10.0A	15V/13.5A	15V/9.0A	832
NXT-225-1006	24V/9.4A	24V/6.3A	24V/8.5A	24V/5.7A	833
NXT-225-1007	28V/8.0A	28V/5.4A	28V/7.2A	28V/4.9A	834
NXT-225-1008	48V/4.7A	48V/3.1A	48V/4.2A	48V/2.8A	835
NXT-225-1009	56V/4A	56V/2.7A	56V/3.6A	56V/2.4A	1150
NXT-325-1001	2.5V/65.0A	2.5V/40.0A	2.5V/58.5A	2.5V/36.0A	844
NXT-325-1002	3.3V/65.0A	3.3V/40.0A	3.3V/58.5A	3.3V/36.0A	845
NXT-325-1003	5V/65.0A	5V/40.0A	5V/58.5A	5V/36.0A	846
NXT-325-1004	12V/29.2A	12V/16.7A	12V/26.3A	12V/15.0A	847
NXT-325-1005	15V/23.3A	15V/13.3A	15V/20.9A	15V/12.0A	848
NXT-325-1006	24V/14.6A	24V/8.3A	24V/13.1A	24V/7.5A	849
NXT-325-1007	28V/12.5A	28V/7.1A	28V/11.3A	28V/6.4A	850
NXT-325-1008	48V/7.3A	48V/4.2A	48V/6.6A	48V/3.8A	851
NXT-400-1001	2.5V/80.0A	2.5V/45.0A	2.5V/72.0A	2.5V/40.5A	853
NXT-400-1002	3.3V/80.0A	3.3V/45.0A	3.3V/72.0A	3.3V/40.5A	854
NXT-400-1003	5V/80.0A	5V/45.0A	5V/72.0A	5V/40.5A	855
NXT-400-1004	12V/33.3A	12V/18.8A	12V/29.9A	12V/16.9A	856
NXT-400-1005	15V/26.7A	15V/15.0A	15V/24.0A	15V/13.5A	857
NXT-400-1006	24V/16.7A	24V/9.4A	24V/15.0A	24V/8.5A	858
NXT-400-1007	28V/14.3A	28V/8.0A	28V/12.8A	28V/7.2A	859
NXT-400-1008	48V/8.3A	48V/4.7A	48V/7.5A	48V/4.2A	860

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Notes (Apply to all NXT-100, 175, 225, 325 and 400, except if specifically noted otherwise.):

1. Total power must not exceed rated output power in model listing at 100-240Vac input.
2. Output power derated linearly below 100Vac input as follows:
   NXT-100 – 1.0watts/volt
   NXT-175 – 1.0watts/volt
   NXT-225 – 1.5watts/volt
   NXT-325 – 1.5watts/volt
   NXT-400 – 2.5watts/volt
3. Derate output power linearly to 50% between 50°C and 70°C
4. NXT-100, 175, 225, 325:
   300 linear feet per minute of airflow must be maintained one inch above the top of the heatsinks in any direction in open frame forced air applications. 300 linear feet per minute of airflow must be maintained one inch above and toward any of the three perforated sides of the cover in forced air chassis/cover applications.
5. NXT-400 only:
   300 linear feet per minute (minimum) of airflow must be maintained along all outside surfaces of exposed heatsinks or chassis. See recommended air flow diagram as a guideline. Input to Output
6. Model Number may be followed by the suffix(s):
   CH - chassis
   CO - cover
   PF - power fail
   OVP - over voltage protection
   RE - remote inhibit
   LS - load share
   WT - wide temperature
   TS - terminal strips
   TB - terminal blocks
   GOLD - gold pins input / output headers
   Y or NY - decreased, or removed, line to ground capacitors
   O – Y2 caps secondary to ground
   P – Y1 caps secondary to ground or removed
   FN- fan with enclosure, appliance inlet
   D- Dolby

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Model Numbers and Output Ratings:

Model Listing	Output 1	Output 2	Output 3	Output 4	Transformer 600XXXX
NXT-400M-4001	3.3V/50A	3.3V-5V/15A	12V-15V/ 5A	12V-15V/ 5A	1062
NXT-400M-4002	5V/50A[5]	3.3V-5V/15A	12V-15V/ 5A	12V-15V/ 5A	1063
NXT-400M-4003	5V/50A[5]	12V-15V/10A	12V-15V/ 5A	12V-15V/ 5A	1064
NXT-400M-4004	5V/50A[5]	24V-28V/5A	12V-15V/ 5A	12V-15V/ 5A	1065
NXT-400M-4005	24V/12.5A	24V-28V/5A	12V-15V/ 5A	12V-15V/ 5A	1095
NXT-400M-3001	5V/50A[5]	12V-15V/10A	-	12V-15V/ 5A	1066
NXT-400M-2001	5V/50A[5]	24V-28V/5A	-	-	1067
NXT-400M-2002	5V/50A[5]	12V-15V/10A	-	-	1068
NXT-400M-2003	12V/25A	12V-15V/10A	-	-	1069
NXT-400M-2004	15V/20A	12V-15V/10A	-	-	1070

Notes (Apply to all NXT-400M models, except if specifically noted otherwise.):

1. Total output power must not exceed:
   400W with 300LFM forced air cooling
   400W with optional fan enclosure
   360W with 300LFM forced air cooling in optional chassis/cover
   200W free air convection cooling (180W free air convection cooling on 4001,4002 only)
   180W free air convection cooling in optional chassis or chassis/cover.
   160W free air convection cooling in optional chassis/cover (4001, 4002 only)

2. Derate Output 1 (3.3V-5V) current rating 40% when free air convection cooled.
3. Derate Output 1 (12V-15V) current rating 25% when free air convection cooled.
4. Derate Output 2 (3.3V-15V) current rating 25% when free air convection cooled.
5. Derate Output 1 (5V) current rating to 40A with fan enclosure, suffix FN.
6. Model Number may be followed by the suffix(s):
   CH - chassis
   CO - cover
   RE/SB- Remote Inhibit/Standby Output
   I/O-Isolated Outputs
   PF-Power Fail Warning
   BF- Type BF (secondary to ground capacitors Y1, Y2 or removed)
   WT - wide temperature
   TS - terminal strips
   TB - terminal blocks
   GOLD - gold pins input / output headers
   Y or NY - decreased, or removed, line to ground capacitors
   FN – fan with enclosure, appliance inlet and TH3/K2 Thermostat

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Model Numbers and Output Ratings:

Model Listing	Output 1	Output 2	Output 3	Output 4	Transformer 600XXXX
NXT-700-4001	+5V/30A	+24-28V/10A	+12-15V/10A	-12-15V/10A	1151
NXT-700-4002	+24V/20A	+12-15V/15A	+3.3-5V/10A	-12-15V/10A	1152
NXT-700-4003	+24V/20A	+24-28V/10A	+12-15V/10A	-12-15V/10A	1153
NXT-700-4004	+48V/10A	+3.3-5V/20A	+12-15V/10A	-12-15V/10A	1154
NXT-700-4005	+48V/10A	-24-28V/10A	+12-15V/10A	-12-15V/10A	1155
NXT-700-3001	+12V/30A	+12-15V/20A	-	-3.3-5V/10A	1156
NXT-700-3002	+24V/20A	+12-15V/15A	-	-12-15V/10A	1157
NXT-700-2001	+5V/30A	+12-15V/20A	-	-	1158
NXT-700-2002	+12V/30A	+12-15V/20A	-	-	1159
NXT-700-2003	+24V/20A	- 3.3-5V/20A	-	-	1160
NXT-700-2004	+24V/20A	-12-15V/20A	-	-	1161

Notes (Apply to all NXT-700 models, except if specifically noted otherwise.):

1. Total output power must not exceed:
   700W with 300LFM Forced Air Cooling, Chassis, or Fan Cover (110-240Vac Input)
   300W Convection Cooled in Open Frame Configuration (100-240Vac Input)
   250W Convection Cooled with optional chassis (100-240Vac Input)
2. Derate total output power 4 watts/volt from 700W to 600W below 110 volt input.
3. Derate outputs 2, 3 and 4 25% when convection cooled.
4. Model Number may be followed by the suffix(s):
   CH - Chassis
   FN – Fan Cover
   I/O-Isolated Outputs
   WT - wide temperature
   GOLD - gold pins input / output headers
   Y – decreased line to ground capacitors
   NY – removed line to ground capacitors

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Model Listing	Output Voltage	90Vac		100Vac		110-240Vac		X-former 600XXXX
		Conv Cooled	FA Cooling / Int. Fans	Conv Cooled	FA Cooling / Int. Fans	Conv Cooled	FA Cooling / Int. Fans	
NXT-1000-1001	12V	20A	57.5A[2]	26.7A	64.2A[3]	29.2A[4]	70.8A[5]	1167
NXT-1000-1002	15V	16A	56.0A	21.3A	61.3A	26.7A	66.7A	1168
NXT-1000-1003	24V	10A	35.0A	13.3A	38.3A	16.7A	41.7A	1169
NXT-1000-1004	28V	8.6A	30.0A	11.4A	32.9A	14.3A	35.7A	1170
NXT-1000-1005	36V	6.7A	23.3A	8.9A	25.5A	11.1A	27.8A	1171
NXT-1000-1006	48V	5A	17.5A	6.7A	19.1A	8.3A	20.8A	1172
NXT-1000-1007	56V	4.3A	15.0A	5.7A	16.4A	7.1A	17.9A	1173

Notes (Apply to all NXT-1000 models, except if specifically noted otherwise.):

1. Total output power must not exceed:
   1000W with 300LFM Forced Air Cooling or Fan Cover (110-240Vac Input)
   400W Convection Cooled in Chassis (110-240Vac Input)
   917W with 300LFM Forced Air Cooling or Fan Cover (100Vac Input)
   320W Convection Cooled in Chassis (100Vac Input)
   834W with 300LFM Forced Air Cooling or Fan Cover (90Vac Input)
   240W Convection Cooled in Chassis (90Vac Input)
2. Rated 690W with 300LFM Forced Air Cooling or Fan Cover (90Vac Input).
3. Rated 770W with 300LFM Forced Air Cooling or Fan Cover (100Vac Input).
4. Rated 350W Convection Cooled in Chassis (110-240Vac Input).
5. Rated 850W with 300LFM Forced Air Cooling or Fan Cover (110-240Vac Input).
6. Model Number may be followed by the suffix(s):
   FN – Fan Cover
   LS – Load Share
   WT - wide temperature
   TS - terminal strips
   TB - terminal blocks
   GOLD - gold pins input / output headers
   Y or NY - decreased, or removed, line to ground capacitors

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Conditions of Acceptability:

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.

2. Risk Controls/ Engineering Considerations for component power supply:

For use only in or with complete equipment where the acceptability of the combination is determined by the CB Testing Laboratory, when installed in an end-product, consideration must be given to the following:

- For Power Supplies with No RM: End product Risk Management Process to include consideration of requirements specific to the Power Supply.
- For Power Supplies with No RM: End product Risk Management Process to consider the acceptability of risk for the following components that were identified as High-Integrity Component: i.e. Fuse (F1).
- For Power Supplies with No RM: End product Risk Management Process to consider the need for simultaneous fault condition testing.
- For Power Supplies with No RM: End product Risk Management Process to consider the need for different orientations of installation during testing.
- For Power Supplies with No RM with Exposure Condition outside of Humidity Range: Power Supply tested in ____°C, ____%RH. End product Risk Management Process to determine risk acceptability criteria.
- For Power Supplies with No RM and Insulating Materials: End product to determine the acceptability of risk in conjunction to insulation to resistance to heat, moisture, and dielectric strength.
- For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the movement of components as part of the power supply.
- For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the movement of conductors as part of the power supply.
- For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the routing of wires away from moving parts and sharp edges as part of the power supply.
- For Power Supplies with No RM and Not tested with Test Corner: Temperature Test was conducted without Test Corner. End product to determine the acceptability of risk in conjunction to temperature testing without test corner as part of the power supply.
- For Power Supplies with No RM or Units without Cleaning/Disinfection Methods: End product to determine the acceptability of risk in conjunction to the Cleaning and Disinfection Methods as part of the power supply.
- For Power Supplies with No RM or Units with Liquids: End product to determine the acceptability of risk in conjunction to the Leakage of Liquids as part of the power supply.
- For Power Supplies with No RM or Units with Indicators: End product to determine the acceptability of risk in conjunction to the Arrangement of Indicators as part of the power supply.
- For Power Supplies with No RM or Units with Enclosures: End product to determine the acceptability of risk in conjunction to the results of Mechanical Testing conducted as part of the power supply
- For Power Supplies with No RM: End product to determine the acceptability of risk in

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conjunction to the selection of components as it pertains to the intended use, essential performance, transport, storage conditions as part of the power supply
• For Power Supplies with Thermal Cut-off and No RM: End product to determine the acceptability of risk in conjunction to the use of Thermal Cut-off and Overcurrent releases as part of the power supply
• For Power Supplies with Pre-set components and No RM: End product to determine the acceptability of risk in conjunction to the use of Pre-set controls as part of the power supply.

3. These components have been judged on the basis of the required spacings in the Standard for Safety of Medical Electrical Equipment, IEC60601-1:2005 + CORR. 1:2006 + CORR. 2:2007 + AM1:2012 + AM2:2020.

4. These components have been evaluated for the output power ratings specified, open frame and in optional chassis/cover, with a tmra 50°C ambient. The NXT-400, NXT-400M, *NXT-700 and NXT-1000* have also been evaluated at the specified 100% power ratings with optional fan enclosure, FN Suffix.

   The temperature tests are to be repeated in the end product. The NXT-100, 175, 225, 325 and 400M isolation transformer employs a R/C OBJS2 Class B (130°C) electrical insulation system issued by Underwriters Laboratories.

   The NXT-400, *NXT-700 and NXT-1000* isolation transformer employ a R/C OBJS2 Class F (155°C) electrical insulation system designated IPD-155-1 (see File E137708SP, Volume 1, Section 6), issued by Underwriters Laboratories.

5. The input circuit in the NXT-100, 175, 225, 325 and 400 includes only one fuse in the line input. A second fuse must be included in the neutral input in the end product, in consideration of paragraph 8.11.5 of IEC60601-1:2005 + CORR. 1:2006 + CORR. 2:2007 + AM1:2012+ AM2:2020.

   The NXT-400M, *NXT-700 and NXT-1000* include a fuse in both the line and neutral inputs.

6. Evaluated for class I applications, pollution degree II.

7. The supply terminal grounding connector is connected to the chassis through a land on the printed wiring board. An Earthing Test between the chassis and input ground terminal was successfully performed. All mounting holes on the printed circuit board must be reliably connected to the end product's grounding connection.

8. These components require Electrical and Fire enclosures as part of the end product.

9. All models provide 2MOPP from Primary Mains to Secondary Output.

10. Standard model numbers, no suffix, provide 1MOPP Primary Mains to Protective Earth and Operational Insulation Secondary Output to Ground.

    For BF output applications in the NXT-400M series only, BF suffix, models provide 1MOPP between Secondary Output and Protective Earth for a working voltage of 40VDC and 2MOPP for a working voltage of 250Vrms with secondary mounting holes isolated from Protective Earth.

11. Model Number Suffix "P" indicates 1MOPP Secondary Output to Protective Earth (secondary to ground capacitors are Y1 or removed). NXT-100, 175, 225, 325 and 400 series only.

12. This unit utilizes both input/output connectors and alternate output terminal blocks, see critical components list. The input/output connectors are not acceptable for field connections and are only intended for connection to mating connectors of internal wiring inside the end-use machine. The acceptability of these mating connectors relative to secureness, insulating materials and temperatures should be considered.

    However, the units that utilize terminal blocks are acceptable for field wiring. These terminal blocks accept 16-30 AWG wire.

13. Touch Currents and/or Leakage Currents must be repeated in the end product.

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14. In consideration of IEC60601-1:2005 + CORR. 1:2006 + CORR. 2:2007 + AM1:2012 + AM2:2020., Clause 8.8, care must be taken to insure the voltage applied to a reinforced insulation does not overstress basic insulation. Breakdown of basic insulation and catastrophic failure of the power supply may result if a test voltage of greater than 1800 VAC is applied between primary and secondary circuits. Each isolating component is factory tested at 4000 VAC minimum prior to installation.

15. NXT-400M models, with a BF suffix, were not investigated for Electromagnetic Compatibility per IEC 60601-1-2. Acceptability to be determined in the end product.

16. Outputs on the NXT-400M and *NXT-700* may be adjusted to any voltage, within the listed range, and will include a numerical suffix for production purposes.

17. For Model NXT-100 only, when provided with a UL Listed Fuse (F1) only, it has limited breaking capacity and was evaluated for installation where the maximum fault current was limited. The end product shall ensure the power supply is used in applications where the limited breaking capacity does not result in unacceptable risk. Disregard this statement when the power supply Fuse (F1) is a UL Recognized Fuse.

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Ref. Certif. No.

DE 3 - 41893

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

CB TEST CERTIFICATE

Product	General Medical Devices Switch Mode Power Supply Series
Name and address of the applicant	**Integrated Power Designs, Inc.** **Hanover Industrial Estates** 300 Stewart Road Wilkes-Barre PA 18706 USA
Name and address of the manufacturer	Integrated Power Designs, Inc. Hanover Industrial Estates 300 Stewart Road, Wilkes-Barre PA 18706, USA
Name and address of the factory	Integrated Power Designs, Inc. Hanover Industrial Estates 300 Stewart Road, Wilkes-Barre PA 18706, USA
Ratings and principal characteristics	Rated Input Voltage: 100-240 Vac Rated Input Frequency: 50-60 Hz Protection Class: I (against electric shock)
Customer's Testing Facility (CTF) Stage used	CTF STAGE 3
Model/type Ref.	NXT-XXX-YYYY Series The “XXX” suffix following the NXT describes the typical output power designation of the supply, in watts, and may be 100, 175, 225, 325, 400, 400M, 700, or 1000. The "YYYY" delineates the voltages found in the Model Numbers and Output Ratings, see below for complete models listing
Additional information (if necessary)	Certificate DE 3 - 41344 issued 2020-10-14 is replaced by this version due to technical changes
A sample of the product was tested and found to be in conformity with	IEC 60601-1:2005 IEC 60601-1:2005/AMD1:2012 IEC 60601-1:2005/AMD2:2020
as shown in the Test Report Ref. No. which forms part of this certificate	7169013676B-000

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CB 030824 0378 Rev. 01

Date, 2024-08-29

(Peter Keith)

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Product Service

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

Model Numbers and Output Ratings:

Model Number	Open Frame		Chassis/Cover		Transformer (6000XXX)
	300LFM	Conv. Cooled	300LFM	Conv. Cooled	
NXT-100-1001	2.5V/20A	2.5V/14A	2.5V/18A	2.5V/12.6A	861
NXT-100-1002	3.3V/20A	3.3V/14A	3.3V/18A	3.3V/12.6A	862
NXT-100-1003	5V/20A	5V/14A	5V/18A	5V/12.6A	863
NXT-100-1004	12V/8.3A	12V/5.8A	12V/7.5A	12V/5.2A	864
NXT-100-1005	15V/6.7A	15V/4.7V	15V/6.0V	15V/4.2A	865
NXT-100-1006	24V/4.2A	24V/2.9A	24V/3.8A	24V/2.6A	866
NXT-100-1007	28V/3.6A	28V/2.5A	28V/3.2A	28V/2.3A	867
NXT-100-1008	48V/2.1A	48V/1.5A	48V/1.9A	48V/1.4A	868
NXT-175-1001	2.5V/35.0A	2.5V/23.0A	2.5V/31.5A	2.5V/20.7A	836
NXT-175-1002	3.3V/35.0A	3.3V/23.0A	3.3V/31.5A	3.3V/20.7A	837
NXT-175-1003	5V/35.0A	5V/23.0A	5V/31.5A	5V/20.7A	838
NXT-175-1004	12V/14.6A	12V/9.6A	12V/13.1A	12V/8.6A	839
NXT-175-1005	15V/11.7A	15V/7.7A	15V/10.5A	15V/6.9A	840
NXT-175-1006	24V/7.3A	24V/4.8A	24V/6.6A	24V/4.3A	841
NXT-175-1007	28V/6.3A	28V/4.1A	28V/5.6A	28V/3.7A	842
NXT-175-1008	48V/3.6A	48V/2.4A	48V/3.2A	48V/2.2A	843
NXT-225-1001	2.5V/53.0A	2.5V/30.0A	2.5V/47.7A	2.5V/27.0A	828
NXT-225-1002	3.3V/53.0A	3.3V/30.0A	3.3V/47.7A	3.3V/27.0A	829
NXT-225-1003	5V/45.0A	5V/30.0A	5V/40.5A	5V/27.0A	830
NXT-225-1004	12V/18.8A	12V/12.5A	12V/16.9A	12V/11.3A	831
NXT-225-1005	15V/15.0A	15V/10.0A	15V/13.5A	15V/9.0A	832
NXT-225-1006	24V/9.4A	24V/6.3A	24V/8.5A	24V/5.7A	833
NXT-225-1007	28V/8.0A	28V/5.4A	28V/7.2A	28V/4.9A	834
NXT-225-1008	48V/4.7A	48V/3.1A	48V/4.2A	48V/2.8A	835
NXT-325-1001	2.5V/65.0A	2.5V/40.0A	2.5V/58.5A	2.5V/36.0A	844
NXT-325-1002	3.3V/65.0A	3.3V/40.0A	3.3V/58.5A	3.3V/36.0A	845
NXT-325-1003	5V/65.0A	5V/40.0A	5V/58.5A	5V/36.0A	846

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Model Number	Open Frame		Chassis/Cover		Transformer (6000XXX)
	300LFM	Conv. Cooled	300LFM	Conv. Cooled	
NXT-325-1004	12V/29.2A	12V/16.7A	12V/26.3A	12V/15.0A	847
NXT-325-1005	15V/23.3A	15V/13.3A	15V/20.9A	15V/12.0A	848
NXT-325-1006	24V/14.6A	24V/8.3A	24V/13.1A	24V/7.5A	849
NXT-325-1007	28V/12.5A	28V/7.1A	28V/11.3A	28V/6.4A	850
NXT-325-1008	48V/7.3A	48V/4.2A	48V/6.6A	48V/3.8A	851
NXT-400-1001	2.5V/80.0A	2.5V/45.0A	2.5V/72.0A	2.5V/40.5A	853
NXT-400-1002	3.3V/80.0A	3.3V/45.0A	3.3V/72.0A	3.3V/40.5A	854
NXT-400-1003	5V/80.0A	5V/45.0A	5V/72.0A	5V/40.5A	855
NXT-400-1004	12V/33.3A	12V/18.8A	12V/29.9A	12V/16.9A	856
NXT-400-1005	15V/26.7A	15V/15.0A	15V/24.0A	15V/13.5A	857
NXT-400-1006	24V/16.7A	24V/9.4A	24V/15.0A	24V/8.5A	858
NXT-400-1007	28V/14.3A	28V/8.0A	28V/12.8A	28V/7.2A	859
NXT-400-1008	48V/8.3A	48V/4.7A	48V/7.5A	48V/4.2A	860

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

Notes (Apply to all models, except if specifically noted otherwise.):

1. Total power must not exceed rated output power with 300LFM (1.5 m/s) forced air cooling at 100-240Vac input on open frame models:
   NXT-100 – 100 watts max.
   NXT-175 – 175 watts max.
   NXT-225 – 225 watts max.
   NXT-325 – 350 watts max.
   NXT-400 – 400 watts max.
2. Output power derated linearly below 100Vac input as follows:
   NXT-100 – 1.0watts/volt
   NXT-175 – 1.0watts/volt
   NXT-225 – 1.5watts/volt
   NXT-325 – 1.5watts/volt
   NXT-400 – 2.5watts/volt
3. Derate output power linearly to 50% between 50°C and 70°C
4. NXT-100, 175, 225, 325:
   300 linear feet per minute of airflow must be maintained one inch above the top of the heatsinks in any direction in open frame forced air applications. 300 linear feet per minute of airflow must be maintained one inch above and toward any of the three perforated sides of the cover in forced air chassis/cover applications.
5. NXT-400 only:
   300 linear feet per minute (minimum) of airflow must be maintained along all outside surfaces of exposed heatsinks or chassis. See recommended air flow diagram as a guideline. Input to Output
6. Model Number may be followed by the suffix(s):
   CH - chassis
   CO - cover
   PF - power fail
   OVP - over voltage protection
   RE - remote inhibit
   LS - load share
   WT - wide temperature
   TS - terminal strips
   TB - terminal blocks
   GOLD - gold pins input / output headers
   Y or NY - decreased, or removed, line to ground capacitors
   P - 1MOPP secondary to ground
   FN- fan with enclosure, appliance inlet
   D- Dolby

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Model Numbers and Output Ratings:

Model Listing	Output 1	Output 2	Output 3	Output 4	Transformer 600XXXX
NXT-400M-4001	3.3V/50A	3.3V-5V/ 15A	12V-15V/ 5A	12V-15V/ 5A	1062
NXT-400M-4002	5V/50A[5]	3.3V-5V/ 15A	12V-15V/ 5A	12V-15V/ 5A	1063
NXT-400M-4003	5V/50A[5]	12V-15V/10A	12V-15V/ 5A	12V-15V/ 5A	1064
NXT-400M-4004	5V/50A[5]	24V-28V/5A	12V-15V/ 5A	12V-15V/ 5A	1065
NXT-400M-4005	24V/12.5A	24V-28V/5A	12V-15V/ 5A	12V-15V/ 5A	1095
NXT-400M-3001	5V/50A[5]	12V-15V/10A	-	12V-15V/ 5A	1066
NXT-400M-2001	5V/50A[5]	24V-28V/5A	-	-	1067
NXT-400M-2002	5V/50A[5]	12V-15V/10A	-	-	1068
NXT-400M-2003	12V/25A	12V-15V/10A	-	-	1069
NXT-400M-2004	15V/20A	12V-15V/10A	-	-	1070

Notes (Apply to all NXT-400M models, except if specifically noted otherwise.):

1. Total output power must not exceed:
   400W with 300LFM forced air cooling
   360W with 300LFM forced air cooling in optional chassis/cover
   200W free air convection cooling (180W free air convection cooling on 4001,4002 only)
   180W free air convection cooling in optional chassis or chassis/cover.
   160W free air convection cooling in optional chassis/cover (4001, 4002 only)

2. Derate Output 1 (3.3V-5V) current rating 40% when free air convection cooled.
3. Derate Output 1 (12V-15V) current rating 25% when free air convection cooled.
4. Derate Output 2 (3.3V-15V) current rating 25% when free air convection cooled.
5. Derate Output 1 (5V) current rating to 40A with fan enclosure, suffix FN.
6. Model Number may be followed by the suffix(s):
   CH - chassis
   CO - cover
   RE/SB- Remote Inhibit/Standby Output
   I/O-Isolated Outputs
   PF-Power Fail Warning
   BF- Type BF (secondary to ground capacitors Y1, Y2 or removed)
   WT - wide temperature
   TS - terminal strips
   TB - terminal blocks
   GOLD - gold pins input / output headers
   Y or NY - decreased, or removed, line to ground capacitors
   FN – fan with enclosure, appliance inlet and TH3/K2 Thermostat

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Model Numbers and Output Ratings:

Model Listing	Output 1	Output 2	Output 3	Output 4	Transformer 600XXXX
NXT-700-4001	+5V/30A	+24-28V/10A	+12-15V/10A	-12-15V/10A	1151
NXT-700-4002	+24V/20A	+12-15V/15A	+3.3-5V/10A	-12-15V/10A	1152
NXT-700-4003	+24V/20A	+24-28V/10A	+12-15V/10A	-12-15V/10A	1153
NXT-700-4004	+48V/10A	+3.3-5V/20A	+12-15V/10A	-12-15V/10A	1154
NXT-700-4005	+48V/10A	-24-28V/10A	+12-15V/10A	-12-15V/10A	1155
NXT-700-3001	+12V/30A	+12-15V/20A	-	-3.3-5V/10A	1156
NXT-700-3002	+24V/20A	+12-15V/15A	-	-12-15V/10A	1157
NXT-700-2001	+5V/30A	+12-15V/20A	-	-	1158
NXT-700-2002	+12V/30A	+12-15V/20A	-	-	1159
NXT-700-2003	+24V/20A	- 3.3-5V/20A	-	-	1160
NXT-700-2004	+24V/20A	-12-15V/20A	-	-	1161

Notes (Apply to all NXT-700 models, except if specifically noted otherwise.):

1. Total output power must not exceed:
   700W with 300LFM Forced Air Cooling, Chassis, or Fan Cover (110-240Vac Input)
   300W Convection Cooled in Open Frame Configuration (100-240Vac Input)
   250W Convection Cooled with optional chassis (100-240Vac Input)
2. Derate total output power 4 watts/volt from 700W to 600W below 110 volt input.
3. Derate outputs 2, 3 and 4 25% when convection cooled.
4. Model Number may be followed by the suffix(s):
   CH - Chassis
   FN – Fan Cover
   I/O-Isolated Outputs
   WT - wide temperature
   GOLD - gold pins input / output headers
   Y – decreased line to ground capacitors
   NY – removed line to ground capacitors

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Model Numbers and Output Ratings:

Model Listing	Output Voltage	90Vac		100Vac		110-240Vac		X-former 600XXXX
		Conv Cooled	FA Cooling / Int. Fans	Conv Cooled	FA Cooling / Int. Fans	Conv Cooled	FA Cooling / Int. Fans	
NXT-1000-1001	12V	20A	57.5A[2]	26.7A	64.2A[3]	29.2A[4]	70.8A[5]	1167
NXT-1000-1002	15V	16A	56.0A	21.3A	61.3A	26.7A	66.7A	1168
NXT-1000-1003	24V	10A	35.0A	13.3A	38.3A	16.7A	41.7A	1169
NXT-1000-1004	28V	8.6A	30.0A	11.4A	32.9A	14.3A	35.7A	1170
NXT-1000-1005	36V	6.7A	23.3A	8.9A	25.5A	11.1A	27.8A	1171
NXT-1000-1006	48V	5A	17.5A	6.7A	19.1A	8.3A	20.8A	1172
NXT-1000-1007	56V	4.3A	15.0A	5.7A	16.4A	7.1A	17.9A	1173

Notes (Apply to all NXT-1000 models, except if specifically noted otherwise.):

1. Total output power must not exceed:
   1000W with 300LFM Forced Air Cooling or Fan Cover (110-240Vac Input)
   400W Convection Cooled in Chassis (110-240Vac Input)
   917W with 300LFM Forced Air Cooling or Fan Cover (100Vac Input)
   320W Convection Cooled in Chassis (100Vac Input)
   834W with 300LFM Forced Air Cooling or Fan Cover (90Vac Input)
   240W Convection Cooled in Chassis (90Vac Input)
2. Rated 690W with 300LFM Forced Air Cooling or Fan Cover (90Vac Input).
3. Rated 770W with 300LFM Forced Air Cooling or Fan Cover (100Vac Input).
4. Rated 350W Convection Cooled in Chassis (110-240Vac Input).
5. Rated 850W with 300LFM Forced Air Cooling or Fan Cover (110-240Vac Input).
6. Model Number may be followed by the suffix(s):
   FN – Fan Cover
   LS – Load Share
   WT - wide temperature
   TS - terminal strips
   TB - terminal blocks
   GOLD - gold pins input / output headers
   Y or NY - decreased, or removed, line to ground capacitors

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Conditions of Acceptability:

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.

2. Risk Controls/ Engineering Considerations for component power supply:
   For use only in or with complete equipment where the acceptability of the combination is determined by the CB Testing Laboratory, when installed in an end-product, consideration must be given to the following:
   - For Power Supplies with No RM: End product Risk Management Process to include consideration of requirements specific to the Power Supply.
   - For Power Supplies with No RM: End product Risk Management Process to consider the acceptability of risk for the following components that were identified as High-Integrity Component: i.e. Fuse (F1).
   - For Power Supplies with No RM: End product Risk Management Process to consider the need for simultaneous fault condition testing.
   - For Power Supplies with No RM: End product Risk Management Process to consider the need for different orientations of installation during testing.
   - For Power Supplies with No RM with Exposure Condition outside of Humidity Range: Power Supply tested in 25°C, 93%RH, 48h. End product Risk Management Process to determine risk acceptability criteria.
   - For Power Supplies with No RM and Insulating Materials: End product to determine the acceptability of risk in conjunction to insulation to resistance to heat, moisture, and dielectric strength.
   - For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the movement of components as part of the power supply.
   - For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the movement of conductors as part of the power supply.
   - For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the routing of wires away from moving parts and sharp edges as part of the power supply.
   - For Power Supplies with No RM and Not tested with Test Corner: Temperature Test was conducted without Test Corner. End product to determine the acceptability of risk in conjunction to temperature testing without test corner as part of the power supply.
   - For Power Supplies with No RM or Units without Cleaning/Disinfection Methods: End product to determine the acceptability of risk in conjunction to the Cleaning and Disinfection Methods as part of the power supply.
   - For Power Supplies with No RM or Units with Liquids: End product to determine the acceptability of risk in conjunction to the Leakage of Liquids as part of the power supply.

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- For Power Supplies with No RM or Units with Indicators: End product to determine the acceptability of risk in conjunction to the Arrangement of Indicators as part of the power supply.
- For Power Supplies with No RM or Units with Enclosures: End product to determine the acceptability of risk in conjunction to the results of Mechanical Testing conducted as part of the power supply
- For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the selection of components as it pertains to the intended use, essential performance, transport, storage conditions as part of the power supply
- For Power Supplies with Thermal Cut-off and No RM: End product to determine the acceptability of risk in conjunction to the use of Thermal Cut-off and Overcurrent releases as part of the power supply
- For Power Supplies with Pre-set components and No RM: End product to determine the acceptability of risk in conjunction to the use of Pre-set controls as part of the power supply.

3. These components have been judged on the basis of the required spacings in the Standard for Safety of Medical Electrical Equipment, IEC60601-1:2005 + CORR. 1:2006 + CORR. 2:2007 + AM1:2012 + AM2:2020.

4. These components have been evaluated for the output power ratings specified, open frame and in optional chassis/cover, wit a 50°C ambient. The NXT-400, NXT-400M, NXT-700 and NXT-1000 have also been evaluated at the specified 100% power ratings with optional fan enclosure, FN Suffix.

5. The temperature tests are to be repeated in the end product. The NXT-100, 175, 225, 325 and 400M isolation transformer employs a R/C OBJS2 Class B (130°C) electrical insulation system issued by Underwriters Laboratories.

6. The NXT-400, NXT-700 and NXT-1000 isolation transformer employ a R/C OBJS2 Class F (155°C) electrical insulation system designated IPD-155-1 (see File E137708SP, Volume 1, Section 6), issued by Underwriters Laboratories.

7. The input circuit in the NXT-100, 175, 225, 325 and 400 includes only one fuse in the line input. A second fuse must be included in the neutral input in the end product, in consideration of paragraph 8.11.5 of IEC60601-1:2005 + CORR. 1:2006 + CORR. 2:2007 + AM1:2012+ AM2:2020.

8. The NXT-400M, NXT-700 and NXT-1000 include a fuse in both the line and neutral inputs.

9. Evaluated for class I applications, pollution degree II.

10. The supply terminal grounding connector is connected to the chassis through a land on the printed wiring board. An Earthing Test between the chassis and input ground terminal was successfully performed. All mounting holes on the printed circuit board must be reliably connected to the end product's grounding connection.

11. These components require Electrical and Fire enclosures as part of the end product.

12. All models provide 2MOPP from Primary Mains to Secondary Output.

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13. Standard model numbers, no suffix, provide 1MOPP Primary Mains to Protective Earth and Operational Insulation Secondary Output to Ground. For BF output applications in the NXT-400M series only, BF suffix, models provide 1MOPP between Secondary Output and Protective Earth for a working voltage of 40VDC and 2MOPP for a working voltage of 250Vrms with secondary mounting holes isolated from Protective Earth.

14. Model Number Suffix “P” indicates 1MOPP Secondary Output to Protective Earth (secondary to ground capacitors are Y1 or removed). NXT-100, 175, 225, 325 and 400 series only.

15. This unit utilizes both input/output connectors and alternate output terminal blocks, see critical components list. The input/output connectors are not acceptable for field connections and are only intended for connection to mating connectors of internal wiring inside the end-use machine. The acceptability of these mating connectors relative to secureness, insulating materials and temperatures should be considered.

16. However, the units that utilize terminal blocks are acceptable for field wiring. These terminal block accept 16-30 AWG wire.

17. Touch Currents and/or Leakage Currents must be repeated in the end product.

18. In consideration of IEC60601-1:2005 + CORR. 1:2006 + CORR. 2:2007 + AM1:2012 + AM2:2020., Clause 8.8, care must be taken to ensure the voltage applied to a reinforced insulation does not overstress basic insulation. Breakdown of basic insulation and catastrophic failure of the power supply may result if a test voltage of greater than 1800 VAC is applied between primary and secondary circuits. Each isolating component is factory tested at 4000 VAC minimum prior to installation.

19. NXT-400M models, with a BF suffix, were not investigated for Electromagnetic Compatibility per IEC 60601-1-2. Acceptability to be determined in the end product.

20. Outputs on the NXT-400M and NXT-700 may be adjusted to any voltage, within the listed range, and will include a numerical suffix for production purposes.

21. For Model NXT-100 only, when provided with a UL Listed Fuse (F1) only, it has limited breaking capacity and was evaluated for installation where the maximum fault current was limited. The end product shall ensure the power supply is used in applications where the limited breaking capacity does not result in unacceptable risk. Disregard this statement when the power supply Fuse (F1) is a UL Recognized Fuse.

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