

*USL and CNL indicate the units have been found to comply with the U.S standard for safety of Information Technology Equipment, UL 60950-1, Second Edition, including **revision Date 2014/10/14** , CAN/CSA C22.2 No. 60950-1-07+ **AMD 1 AMD 2**, Second Edition including **revision Date 2014/10/14**.

Special Considerations - The following items are considerations that were used when evaluating these products.

The units were evaluated for use in a 25°C and 40°C ambient.

Models DPS53, DPS52, DPS52(-401), DPS54, DPS55, DPS58(-401), DPS58(-402) and DPS58 are Class I equipment. The units are considered movable, intended for use on TN power system and pollution degree 2 environment.

Disconnect Device - The appliance inlet in the equipments are considered as the disconnect device.

The instruction for selection of power supply cord will be provided in the end product. It is the responsibility of the end product manufacturer to ensure that complete instruction is provided with the end product for the country this product is designated.

The transformer T1 employs Class F insulation system.

The power supplies are classified as Level 3 as defined by UL60950-1, Second Edition.

CONSTRUCTION DETAILS:

Section General - The following construction items are described in the Section General.

Abbreviations	UL Requirements
Corrosion Protection	Internal Wiring
Segregation	Wire Positioning Devices
Markings	Internal Polymeric Materials
Printed Wiring Boards	Wiring Connection
Connectors and Receptacles	Insulating Tubing / Sleeving
Earthing/Bonding	Earthing Symbol
Capacitors	Optocouplers
Voltage Surge Suppressors	

Model Difference - Model DPS53 is identical to Model DPS52 except for the output ratings, transformer, discharge resistors and secondary heatsink. See description for details.

Model Difference - Models DPS54, DPS55, DPS58(-401) and DPS58 are identical to Model DPS53 except for the output ratings and transformer (T1).

Model Difference - Model DPS53 is identical to Models DPS52, DPS54, DPS55 and DPS58 except above Difference and DC Input.

Model Difference - Model DPS58(-401) is identical to Model DPS58 except output connector.

Model Difference - Model DPS52(-401) is identical to Model DPS52 except output rating, transformer T1 and output connector.

Model Difference - Model DPS58(-402) is identical to Model DPS58(-401) except output connector and output cord size.

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Spacing - The following spacings are maintained in the power supply, Models DPS53, DPS52, DPS52(-401), DPS54, DPS55, DPS58(-401), **DPS58(-402)** and DPS58.

1. Minimum 2.5 mm creepage distance and minimum 2.0 mm clearance between Live and Neutral traces before the fuse, primary and protective earth traces.
2. Minimum 6.4 mm creepage distance and minimum 4.4 mm clearance between primary and secondary traces of power transformer T1.
3. Minimum 5.0 mm creepage distance and minimum 4.0 mm clearance between primary and secondary traces other than Item 2.

See ILL. 1 and 2 for details.

ILLUSTRATIONS:

ILL. 1 - PWB Trace Layout (Solder Side)

ILL. 2 - PWB Trace Layout (Components Side)

ILL. 3 - Output Connector for Models DPS58(-401) and DPS58(-402)

General - The general design, shape and arrangement shall be as illustrated in the following figures except where variations are specifically described.

MODEL DPS52 - FIG. 1

General - Fig. 1 shows the overall view of Model DPS52. Also represents Models DPS52(-401), DPS53, DPS54, DPS55, DPS58(-401), **DPS58(-402)** and DPS58 unless otherwise specified.

1. Top Enclosure - (QMFZ2), Sabic Innovative Plastics China Co., Ltd. , PC, Type 940, rated V-0, 120 degC, minimum 2.5 mm thick, overall 133 by 60.7 by 20.5 mm. Provided with 2 openings, one measure 27 by 12 mm for Appliance Inlet and one 9.6 by 4 mm for output core. Secured to Bottom Enclosure, by hooking and two screws.
2. Bottom Enclosure - (QMFZ2), Sabic Innovative Plastics China Co., Ltd., PC, Type 940, rated V-0, 120 degC, minimum 2.5 mm thick, overall 133 by 60.7 by 20.5 mm. Provided with 2 openings, one measures 27 by 12 mm for Appliance Inlet and one 9.6 by 4 mm for Output Cord.
3. Attachment plug - (AXUT2), Rong Feng Industrial Co. Ltd., Type SS-120, rated 15 A, 250 V ac. Secured to the opening provided by Top and Bottom Enclosure. Also soldered to AC input PWB which is connected to main board with wire, the wire for grounding conductor is AVLV2, minimum 18 AWG, green and yellow, with its two ends secured to a double-crimped hook and soldered to PWB, Fig. 2.
4. Output Cord Strain Relief Bushing - PVC. Integrally molded with the Output Cord. Provided with a rectangle stopper measuring 16 by 14 mm, and a neck measuring overall 9 by 8 by 3.1 mm. Physically secured to the opening, formed by the Top and Bottom Enclosure.
5. Output Cord - (AVLV2), Style 2517, **including with 3 internal cord**, 16 AWG for 1 cord **and 22 AWG for 2 cords**, rated VW-1, 105°C, terminated in molded-on non-standard polarized output connector. Maximum 2 m length.

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Alternate - For Model DPS58(-402) only. (AVLV2), Style 2517, including with 3 internal cord, 18 AWG for 1 cord and 22 AWG for 2 cords, rated VW-1, Min 300 V, Min 105°C, terminated in molded-on non-standard polarized output connector. Maximum 2 m length