

SPECIFIC TECHNICAL CRITERIA

UL 60950-1, First Edition Information technology equipment - Safety- Part 1: General Requirements	
Test item description: DC-DC converter Trademark: None Model and/or type reference: LED15-xSyw, where x can be 24 or 48; y can be 3P3W, 05W, 12W, 15W; w can be any alphanumeric character or blank. Rating(s): See enclosure 7-01 for details.	
CF1.0	Engineering Conditions of Acceptability
CF1.1	For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. When installed in an end-product, consideration must be given to the following:
CF1.2	The following Production-Line tests are conducted for this product: Electric Strength,
CF1.3	The end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary-SELV: 95 Vrms, 144 Vpk
CF1.5	The following secondary output circuits are SELV: All output.
CF1.7	The following secondary output circuits are at non-hazardous energy levels: All output
CF1.11	The power supply terminals and/or connectors are: Suitable for factory wiring only
CF1.12	The maximum investigated branch circuit rating is: 30 Adc
CF1.13	The investigated Pollution Degree is: 2
CF1.19	The following end-product enclosures are required: Mechanical, Fire, Electrical
CF1.23	The equipment is suitable for direct connection to: DC mains supply
CF2.0	The component is intended to be connected to isolated secondary circuit which is separated from primary circuit by Reinforced or Double insulation.
CF2.1	Abnormal/Component Failure Tests were conducted with the power supply input protected by an external R/C 3 A, 125 Vdc fuse (Bel, type MS). The need for repeating these tests in the end-use appliance shall be considered if installed in a circuit having higher rated protected devices.
CF2.2	DC-DC converter is providing reinforced insulation from SELV to Hazardous voltage secondary circuit. According to Clause 2.2.4, the DC-DC converter has been tested of short circuiting of insulation transformer primary and secondary, and passed electrical strength test for basic insulation in according with 5.2.2.
CF2.3	The DC-DC converter shall be provided with external cooling fan (minimum 13.82 CFM). for external cooling and power supply location See enclosure Miscellaneous ID 7-02.
CF2.4	The units were tested for an input voltage of 9 - 36 or 36 - 75 V dc with zero tolerance. If used outside these voltage ranges, additional testing may be required.
CF2.5	Special enclosure consideration should be given to the end-use installation. Hazardous voltage is available on the surface of the PWB. The end-use product should be reviewed to determine whether accessibility requirements are met for the end-use product.