CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1031251 (LR 111897-12) **Master Contract:** 188668

Project: 1236634 **Date Issued:** August 23, 2001

Issued to: **FSP Group Inc.**
No 22 Jianguo E. Rd.
Taoyuan Hsien
Taiwan
Attention: Mr. Allen Cheng

The products listed below are eligible to bear the CSA Mark shown, with adjacent indicator NRTL/C.

NRTL/C

Issued by: A. Yeung, P. Eng.

Authorized by: Nick Alfano
Operations Manager

PRODUCTS

CLASS 5311 03 - POWER SUPPLIES - Component Type
CLASS 5311 83 - POWER SUPPLIES - Component Type - CERTIFIED TO U.S. STANDARDS

Component type power supplies intended for use with Information Technology and Business Equipment, where the suitability of the combination is to be determined by the CSA International.
Cord-connected, input rated 115/230V ac, 60/50Hz, 10/5A or 230V ac, 50Hz, 5A.

PART A: Models FSP350-60By where y can be N or T, output classification level 5, rated +5/+12/+3.3/-5/-12/+5sb V dc; 32/15/28/0.3/0.8/1.6 or 1.0A or 2 or 3A. (+5V and +3.3V total 220W max), (+5V and +3.3V and +12V total 330W max). (Total output 350W max).

PART B: Models FSP330-60By where y can be N or T, output classification level 5, rated +5/+12/+3.3/-5/-12/+5sb V dc; 32/8/28/0.3/0.8/1.6 or 1.0A or 32/7/28/0.3/0.8/3 or 2A. (+5V and +3.3V total 220W max). (Total output 330W max).

PART C: Models FSP300-60By where y can be R, output classification level 5, rated +5/+12/+3.3/-5/-12/+5sb V dc; 30/9/28/0.3/0.5/1.6 or 1.0A. (+5V and +3.3V total 180W max). (Total output 300W max).

The 'NRTL/C' indicator adjacent to the CSA Mark signifies that the product has been evaluated to the applicable ANSI/UL and CSA Standards, for use in the U.S. and Canad NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognised to perform certification to U.S. Standards.

PART D: Models FSP250-60By where y can be N or T, output classification level 3, rated +5/+12/+3.3/-5/-12/+5sbV dc; 25/10/16/0.3/0.8/1.6 or 1.0A. (+5V and +3.3V totall 145W max). (Total output max 250W).

PART E: Models FSP300-60By where y can be N or T, output classification level 3, rated +5/+12/+3.3/-5/-12/+5sb V dc; 30/11/16/0.3/0.8/2A (+5V and +3.3V total 150W) or 30/11/16/0.3/0.8/3A (+5V and +3.3V total 145W max). (Total output 300W max).

PART F: Models FSP300-60By(PF) where y can be N or T, output classification level 3, rated +5/+12/+3.3/-5/-12/+5sb V dc; 30/11/16/0.3/0.8/2A (+5V and +3.3V total 150W). (Total output 300W max).

PART G: Models FSP300-60By(12V) where y can be N or T, output classification level 3, rated +5/+12/+3.3/-5/-12/+5sb V dc; 30/15/28/0.3/0.8/2A (+5V and +3.3V total 180W, +5V, +12V and +3.3V total 280W, total output 300W max).

PART H: Models FSP250-60By(12V) where y can be N or T, output classification level 3, rated +5/+12/+3.3/-5/-12/+5sb V dc; 25/13/20/0.3/0.8/2A (+5V and +3.3V total 150W, +5V, +12V and +3.3V total 230W, total output 250W max).

PART I: Models FSP300-60PNA(PF), output classification level 3, rated +5/+12/+3.3/-5/-12/+5sb/+12 V dc; 30/15/15/0.3/0.8/2/0.8 (optional) A (+5V and +3.3V total 180W)(+5V and +3.3V and +12V total 280W) (Total output 300W max).

PART J: Models FSP300-60ByV(PF) and FSP300-60ByV, where y can be N or T, output classification level 3, rated +5/+12/+3.3/-5/-12/+5sb V dc; 30/15/28/0.3/0.8/2 A (+5V and +3.3V total 200W) (Total output 300W max).

APPLICABLE STANDARDS

CAN/CSA-C22.2 No 950-95	-	Safety of Information Technology Equipment, Including Electrical Business Equipment
UL Std No 1950, 3rd Ed.	-	Safety of Information Technology Equipment Including Electrical Business Equipment

CSA INTERNATIONAL

Supplement to Certificate of Compliance

Certificate: 1031251 (LR 111897-12) **Master Contract:** 188668

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1236634	August 23, 2001	To update report 1031251 to add alt. T1 and DC Jack for model FSP300-60PNA(PF), add alt. EMI Filter, add alt. Models FSP300-60ByV(PF), FSP300-60ByV, changed from level 5 to level 3.
1211465	June 5, 2001	To updated report 1031251 to revised output rating for FSP350-60By, adding fan control board, adding alt. Model FSP300-60PNA(PF) and adding alt. components.
1165126	January 15, 2001	To update report 1031252 (LR 111897-12) to add alt. Models FSP300-60By(PF), FSP300-60By(12V), FSP250-60By(12V), alt. vent/fan opening for all models, adding alt. PCB Layout/trace, schematic, upgrade X cap rating, adding alt. heat sink size and adding alt. vendors of DC Fan and EMI Filter.
1135560	October 3, 2000	To update report 1031252 to change output rating of +3.3V to 16A for models FSP300-60BN and FSP300-60BT.
1079705	June 9, 2000	To update Report 1031251 (LR 111897-12) to add alternate DC Fan models FSP300-60BN/BT and FSP250-60BN/BT, alternate vendor of transformers, revised dimension of varistor and alternate size of heat sink
1065491	May 5, 2000	To update Report 1031251 (LR 111897-12) to add alternate DC Fan models FSP300-60BN/BT and FSP250-60BN/BT, alternate vendor of transformers, revised dimension of varistor and alternate size of heatsink
1031251	99/11/22	To update Report LR 111897-12 to include Model FSP300-60By. Originally issued as 2500004600.
-12	99/03/15	Original Certification.