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# Underwriters' Laboratories of Canada

*An Affiliate of Underwriters Laboratories Inc.*

## NOTICE OF AUTHORIZATION TO APPLY THE UL and c-UL MARKS

August 19, 2002

FSP Group Inc.  
c/o PSE Inc., Taiwan  
9F-1, No. 80 Guang Fu Road, Sec 2  
San Chung City, Taipei Hsien, Taiwan

Attention: Ms. Sharon Chang

Our Reference: File E190414, Project 02CA04756

Product: Power Supply, Model ATX-xxxGy (where xxx can be 200, 250 or 300  
and y can be N, T or U)

Dear Ms. Chang,

This letter is sent on behalf of Underwriters Laboratories (UL) Inc. pursuant to the Certification and Registration Agreement between Underwriters' Laboratories of Canada and UL.

UL's investigation of your product has been completed under the above project number and the subject product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Recognized Component Mark only at the factory under UL's Follow-Up Service Program to the subject product which is constructed as described below:

Modified by the Construction Change Notice dated August 19, 2002, copy attached.

Within Canada, there are federal and local statutes and regulations, such as the consumer Packaging and Labeling Act, requiring the use of bilingual product markings on products intended for the Canadian market. It is the responsibility of the manufacturer (or distributor) to comply with this law. The UL Follow-Up Service Procedures will only include the English version of the markings.

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This authorization is effective for 90 days from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.


Products which bear the UL mark shall be identical to those which were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, authorization to use the UL Mark may be withdrawn and products that bear the UL Mark may have to be revised (in the field or at the manufacturer's facility) to bring them into compliance with UL's requirements.

Very truly yours,



Glenn Wang  
Project Handler  
Local Engineering Services, Vancouver  
Underwriters' Laboratories of Canada

Reviewed by:



Joseph Petilla  
Project Handler  
Local Engineering Services, Vancouver  
Underwriters' Laboratories of Canada

## CONSTRUCTION CHANGE NOTICE

File E190414, Vol. 1, Sec. 32

Project No. 02CA04756

Date: August 19, 2002

NOTE TO UL REPRESENTATIVE: Please give particular attention to the following items which pertain to changes, that the manufacturer was required to make in his product. After these items have been checked on production samples, this sheet may be destroyed.

Product: Power Supply, Model ATX-xxxGy

(where xxx can be 200, 250 or 300 and y can be N, T or U)

### Construction Modifications:

1. Modified PCB layout.
2. Alternate Fuse (F1) – R/C (JDYX2) rated T6.3 A or T5A, 250 V.

<u>Manufacturer</u>	<u>Type</u>
Conquer Electronics Co., Ltd.	UTE-A
Cooper Industries Inc., Bussmann DIV	S506
Walter Electronic Co., Ltd.	TSD
Bel Fuse Inc.	MRT, 5ST
Wickmann-Werke GMBH	19195

3. New X-Capacitor (CX) – R/C (FOWX2) or (FOKY2) rated max. 0.68 uF, min. 250 V.
4. X-Capacitor (CX1) - R/C (FOWX2) or (FOKY2) rated max. 0.47 uF, min. 250 V.
5. Inductor FL2 – Rated minimum 105°C.
6. Varistor (M1, M2) – Optional.
7. PFC choke - For 200 W and 250 W units only. Enameled copper wire, rated minimum 105°C, wound on phenolic bobbin 0.71 mm thick. Core: Silicon steel, measures 32 by 45 by 18.55 mm. For 300 W units, core size 32mm by 47mm by 18.55mm. Not provided on models ATX-250GU and ATX-300GU.
8. Thermistor (TH1) – rated 2.5 ohms, 8 A
9. Bleeder Resistor (R1) - (PRI) For all models, secured on inlet, rated 560 kΩ, 1/4 W.  
Alternate – For 200 W units and Model ATX-250GU only, rated 1 MΩ, 1/4 W.  
Provided on Main Board.
10. Transformer (T3) – winding insulation as follows:

<u>Location</u>	<u>Pin No.</u>	<u>No. of Layers/Total Thickness(mm)/Material</u>
Outerwrap	--	3 / 0.15 / Polyester tape
Pri./Pri.	7 / 8	1 / 0.05 / Polyester tape
Pri./Sec.	8 / 1,2	3 / 0.15 / Polyester tape
Sec./Sec.	1,2 / 3,1	1 / 0.05 / Polyester tape
Sec./Pri.	3,1 / 5,6	3 / 0.15 / Polyester tape
Pri./Pri.	5,6 / 10	1 / 0.05 / Polyester tape
Pri./Pri.	10 / 7	1 / 0.05 / Polyester tape
Pri./Core	7 / Core	1 / 0.80 / Bobbin