



안전확인신고 증명서 Confirmation Letter of Declaration

신 고 번 호 : YU10485-16001A
(Application No.)

신 고 회 사 명 : ASTEC POWER PHILIPPINES INC
(Applicant)

주 소 : 104 LAGUNA BLVD, LAGUNA TECHNOPARK, STA ROSA, LAGUNA, 4026
(Address) PHILIPPINES

제 품 명 : 컴퓨터용 전원공급장치
(Product) (Power Supply for Computer)

기 본 모 델 명 : DS495SPE-3
(Basic Model)

파 생 모 델 명 : 불임참조(Attached)
(Series Model)

정격/안전기준상의 모델구분 : 100-240 V~, 50/60 Hz, 6.6 A (DC Output: +12 V, 41.25 A Max, +12 Vsb, 3 A
(Rating) Max, Total: 495 W Max)

안 전 기 준 : K60950-1(2011-12)
(Standard)

본 확인신고는 제조국명 : 필리핀
 제조업자명 : ASTEC POWER PHILIPPINES INC의 제품에만 해당함
 제조공장의 주소 : 104 LAGUNA BLVD, LAGUNA TECHNOPARK, STA ROSA, LAGUNA, 4026
 PHILIPPINES

「전기용품 및 생활용품 안전관리법 시행규칙」 제27조제1항·제3항 또는 제28조제2항에 따라 안전확인신고 증명서를 발급합니다.

We issue this Confirmation Letter of Declaration of the Safety Confirmation for the above appliances in accordance with Article 27(1), 27(3) or 28(2) of the Electrical Appliances and Consumer Products Safety Control Act.

2017년 04월 26일
year month day

KTR 한국화학융합시험연구원
KOREA TESTING & RESEARCH INSTITUTE



* 이 신고증명서는 「전기용품 및 생활용품 안전관리법」에 따른 제품의 안전성 확인에 한성된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류	1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)(전기용품에 한정한다) 2. 기본모델·파생모델의 내용(Description of the basic and series model) 3. 안전확인신고 내용의 변경 현황(Revisions Status)
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* 안전인증 시의 조건 : 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.



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[붙임(Attachment)]

DS495SPE-3-001, DS495SPE-3-401, DS495SPE-3-402, DS495SPE-3-403, DS495
SPE-3-404, DS495SPE-3-405, DS495SPE-3-406



신고번호(Application No.) : YU10485-16001A

[붙임 1 : 전기용품의 안전관리부품 및 재질목록]

[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Metal sheet chassis	Interchangeable	Interchangeable	Steel. Overall measures approximately 196.3 by 86.3 by 40.0 mm, 0.8 mm thick.	-
Metal sheet cover	Interchangeable	Interchangeable	Steel. Overall measures approximately 196.5 by 84.5 by 29.0 mm, 0.8 mm thick. Provided with 15 rectangular ventilation slots measuring 14.4 mm by 7.0 mm.	-
Label	Interchangeable	Interchangeable	Suitable for use on each type of surface to which applied, rated for maximum surface temperature specified.	-
Inlet	RONG FFNG	SS-120	250 V~, min. 10 A	CBTR Evaluation
Alt.)	TECX-UNIONS	TU-301-S	250 V~, min. 10 A	CBTR Evaluation
Internal wires(L&N)	Interchangeable	Interchangeable	Min. 300 V, min. 105 °C, 18 AWG	-
Grounding(PE) wire	Interchangeable	Interchangeable	Min. 300 V, min. 105 °C, 18 AWG, Yellow/Green	-
Fan	Delta	FFR0412UHN-BC2E	12 Vd.c., 1.01 A	-
Alt.)	AVC	DBTD0428B2F	12 Vd.c., 1.1 A	-
Alt.)	Sunon	PF40281BX	12 Vd.c., 10.8 W	-
Alt.)	AVC	DBTB0428B2G	12 Vdc, 1.0 A	-
Alt.)	Sunon	PF40281BX-D330-S99	12 Vd.c., 13.8 W	-
Tubing for LED cable	Interchangeable	Interchangeable	Min. 0.4 mm thick, 125 °C, min. 300 V, VW-1	-
Fuse(F100)	LITTELFUSE	216016	F16 AH 250 V	CBTR Evaluation
Alt.)	Hollyland	50CF(P)	F16 AH 250 V	CBTR Evaluation
Alt.)	CONQUER	UBM-A	F16 AH 250 V	CBTR Evaluation

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[붙임 1 : 전기용품의 안전관리부품 및 재질목록]

[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
X2-capacitor(C15b)	Hua Jung	MKP	Max. 1 μ F, min. 250 V	CBTR Evaluation
Alt.)	Faratronic	MKP62	Max. 1 μ F, min. 250 V	CBTR Evaluation
Alt.)	Interchangeable	Interchangeable	Max. 1 μ F, min. 250 V, IEC60384-14 certified. (Tested for damp heat condition with min. 21 days, -/-/21)	CBTR Evaluation
Choke (L102,L103)	Astec/Artesyn/ Emerson	801-000418-XXXX 8000889 -XXXX	130 $^{\circ}$ C	-
Alt.)	Astec/Artesyn/ Emerson	801-005831-XXXX	130 $^{\circ}$ C	-
Y-capacitor(C135, C134)	Kemet	F881	Max. 2 700 pF, min. 250 V	CBTR Evaluation
Alt.)	Vishay	338 6	Max. 2 200 pF, min. 250 V	CBTR Evaluation
Alt.)	Faratronic	MKP63	Max. 2 200 pF, min. 250 V	CBTR Evaluation
Alt.)	Interchangeable	Interchangeable	Max. 2200 pF, min. 250 V, IEC60384-14 certified (Tested for damp heat condition with min.21 days, -/-/21)	CBTR Evaluation
Bleeder resistor (R110,R111,R112,R 113)	Interchangeable	Interchangeable	Max. 499 K, min. 0.125 W	-
Y-capacitor(C117, C118)	Kemet	F881	Max. 2 700 pF, min. 250 V	CBTR Evaluation
Alt.)	Vishay	338 6	Max. 2 700 pF, min. 250 V	CBTR Evaluation
Alt.)	Faratronic	MKP63	Max. 2 700 pF, min. 250 V	CBTR Evaluation
Alt.)	Interchangeable	Interchangeable	Max. 2 700 pF, min. 250 V, IEC60384-14 certified (Tested for damp heat condition with min. 21 days, -/-/21)	CBTR Evaluation
X-capacitor (C156)	Hua Jung	MKP	Max. 820 nF, min. 250 V	CBTR Evaluation
Alt.)	Faratronic	MKP62	Max. 820 nF, min. 250 V	CBTR Evaluation
Alt.)	Interchangeable	Interchangeable	Max. 820 nF, min. 250 V, IEC60384-14 certified	CBTR Evaluation

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[붙임 1 : 전기용품의 안전관리부품 및 재질목록]

[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
			(Tested for damp heat condition with min.21 days, -/-/21)	
Varistor(MOV100)	Thinking	TVR144/1	300 V, Coating with V 1 min.	-
Alt.)	Walsin	SR471K14D	300 V, Coating with V-1 min.	-
Bridge rectifier(D117)	interchangeable	interchangeable	Min. 25 A, min. 600 V	-
Relay(K100)	interchangeable	interchangeable	Coil: 12 Vd.c.	-
Choke(L104)	Astec/Artesyn/ Emerson	801-005030-XXXX	130 °C	-
Bulk capacitor(C120, C131)	Interchangeable	Interchangeable	Max. 180 µF, min. 450 V, min. 105 °C	-
Power transformer (T100)	Astec/Artesyn/ Emerson	801-004512-XXXX	Class F Insulation system, designated 155-10 C. (E94225) by Astec International Ltd.	-
Power Transformer T100 Holder	El Dupont De Nemours & Co Inc	Rynite FR530	Rated V 0, min. 0.5 mm thick, 155 °C	-
Power Transformer T100 TIW	Hoi Luen Electrical MFR Co Ltd	THL-F	Rated 155 °C, AWG#24	-
Alt.)	Rubadue Wire Co Inc	T-AA-X-XX-TXXX-L	Rated 155 °C, AWG#24	-
Alt.)	Totoku Electric Co Ltd	TIW-3	Rated 155 °C, AWG#24	-
Alt.)	Draka Cable Wuppertal GMBH	8Y13	Rated 155 °C, AWG#24	-
Alt.)	New England Wire Technologies Corp	WaaTcccE (ETFE)	Rated 155 °C, AWG#24	-
Alt.)	Hoi Luen Electrical MFR Co Ltd	THI -F-SB	Rated 155 °C, AWG#24	-
Alt.)	Totoku Electric Co Ltd	TIW-3XS3	Rated 155 °C, AWG#24	-
Choke(L101)	Astec/Artesyn/ Emerson	801-006511-XXXX	130 °C	-
Optocoupler(Q113, Q304, Q305, Q312, Q313)	Avago(E55361)	HCPL-817	5 000 V~ isolation	-
Alt.)	Lite-on	LTV-817 or LTV817	5 000 V~ isolation	-
Alt.)	Everlight	EL817	5 000 V~ isolation	-
Gate Drive	Astec/Artesyn/	801-002684-XXXX	Class F Insulation	-

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[붙임 1 : 전기용품의 안전관리부품 및 재질목록]

[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
transformer (T300)	Emerson		system, designated 155-10 C. (E94225) by Astec International Ltd.	
Alt.)	Astec/Artesyn/ Emerson	8060160-XXXX	Class F Insulation system, designated 155-10 C. (E94225) by Astec International Ltd.	
Gate Drive Transformer T300 Bobbin/Holder	Chevron Philips / Solvay Specialty Polymers	Ryton R-4	Rated V-0, min. 0.5 mm thick, 155 °C	
Gate Drive Transformer T300 TIW	Hoi Luen Electrical Mfr Co Ltd	THL-F	Rated 155 °C, AWG#32	
Alt.)	Rubadue Wire Co Inc	T-AA-X-XX TXXX-L	Rated 155 °C, AWG#32	
Alt.)	Totoku Electric Co Ltd	TIW 3	Rated 155 °C, AWG#32	
Alt.)	Draka Cable Wuppertal GMBH	8Y13	Rated 180 °C, AWG#32	
Alt.)	New England Wire Technologies Corp	WaaTcccE (ETFE)	Rated 155 °C, AWG#32	
Alt.)	Hoi Luen Electrical MFR Co Ltd	THL-F-SB	Rated 155 °C, AWG#32	
Alt.)	Totoku Electric Co Ltd	TIW-3XSB	Rated 155 °C, AWG#32	
Transistor(Q301, Q302)	Interchangeable	Interchangeable	min. 600 V, min. 16 A	
Auxiliary transformer (T900)	Astec/Artesyn/ Emerson	801-006238-XXXX	Class F Insulation system, designated 155-10 C. (E94225) by Astec International Ltd.	
Auxiliary Transformer T900 Bobbin	El Dupont De Nemours & Co Inc	Rynite FR530	Rated V-0, min. 0.5 mm thick, 155 °C	
Auxiliary Transformer T900 TIW	Hoi Luen Electrical MFR Co Ltd	THL-F	Rated 155 °C, AWG#24	
Alt.)	Rubadue Wire Co Inc	T-AA-X-XX-T-XXX-L	Rated 155 °C, AWG#24	
Alt.)	Totoku Electric Co Ltd	TIW-3	Rated 155 °C, AWG#24	
Alt.)	Draka Cable Wuppertal GMBH	8Y13	Rated 180 °C, AWG#24	
Alt.)	New England Wire Technologies Corp	WaaTcccE (ETFE)	Rated 155 °C, AWG#24	
Alt.)	Hoi Luen Electrical MFR Co Ltd	THL-F-SB	Rated 155 °C, AWG#24	

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[붙임 1 : 전기용품의 안전관리부품 및 재질목록]

[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Alt.)	Totoku Electric Co Ltd	11W-3XSB	Rated 155 °C, AWG#24	-
PWB	Interchangeable	Interchangeable	Min. 130 °C, min. V-0	-
Insulator between top cover and main board	Toray	Lumirror (#) series, type Lumirror S10	VTM-2, 105 °C, Overall measured approximately 193.3 mm by 81.8 mm. Min. 0.125 to 0.23 mm thick.	-
Insulator between bottom chassis and main board	Toray	Lumirror (#) series, type Lumirror S10	VTM-2, 105 °C, Overall measured approximately 192 mm by 84 mm by 36.45 mm. Min. 0.125 to 0.23 mm thick.	-
Handle	SABIC INNOVATIVE PLASTICS B V	Lexan 945 (GG)	U-shape. Min. HB. Overall dimension of minimum 54.12 mm by 30 mm.	-
Alt.)	SABIC INNOVATIVE PLASTICS US L L C	Lexan 945 (GC)	U-shape. Min. HB. Overall dimension of minimum 54.12 mm by 30 mm.	-
Y-Capacitor (C801, C802)	Murata Mfg Co Ltd.	KY	250 V, 220 pF	CBTR Evaluation
Alt.	Waisin Technology Corp.	AH	250 V, 220 pF	CBTR Evaluation
Alt.	TDK Corporation	CD	250 V, 220 pF	CBTR Evaluation

※ 주의사항(Attention)

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장 검사시 확인 및 관리하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등록을 원하시는 경우는 안전인증기관에 인증변경 신청을 하여야 합니다.

(As the critical components and parts are directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying for multiple listings or changes for the items above, the certification revision shall be applied.)

2. 인증변경신청 없이 임의로 변경하는 경우는 전기용품 및 생활용품 안전관리법 제11조 및 제20조 제1항의 규정에 의한 안전인증 취소사유가 됨을 유익하시기 바랍니다.

(The safety certification will be cancelled under the Electrical Appliances and Consumer Products Safety Control Act, Clause 1 of Article 11 and 20 if the contents of the certification are altered without prior authorization.)

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[붙임 2 : 기본모델 · 파생모델의 내용]

[Attachment 2 : General Description of Certified Products]

파생모델명 (Series model(s))	기본모델과의 차이점 (Difference between the basic and variant models)	비고 (Remarks)
DS495SPE-3-401	o Different model name from basic model	
DS495SPE-3-402	o Different model name from basic model	
DS495SPE-3-001	o Different model name from basic model	
DS495SPE-3-403	o Different model name from basic model	
DS495SPE-3-404	o Different model name from basic model	
DS495SPE-3-405	o Different model name from basic model	
DS495SPE-3-406	o Different model name from basic model	

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[붙임 2 : 기본모델 · 파생모델의 내용]

[Attachment 2 : General Description of Certified Products]

제품 및 시험특기사항
(Features and Specifications)

o Characteristics

- DC Power supply for computer

o Rating

- Rated : 100-240 V~, 50/60 Hz, 6.6 A (DC Output : +12 V, 41.25 A Max, +12 Vsb, 3 A Max, Total : 495 W Max)
- Rating time : Continuous
- Protection grade against electric shock : Class I
- Mobile devices : Movable appliance
- IP grade : IPX0
- Appliance weight : 1.0 kg

* 본 제품의 시험내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하여 주시기 바랍니다.

시험담당자 연락처 : Tel : 02-2164-1426 Fax : 02-2634-1007

(If you have any questions on product testing contents, please contact the following : Tel : 82-2-2164-1426 Fax : 82-2-2634-1007)

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[붙임 3 : 전기용품 안전인증(안전확인신고) 변경 현황]

[Attachment 3 : Revisions Status]

일자 (Date)	내 용 (Content of revision)	비 고 (Reference)
2016. 03. 11	o Date of Initial Issue	-
2017. 04. 26	o Components are added 1. Y-Capacitor (C801,C802) - Manufacture : Murata Mfg Co Ltd. - Model : KY - Rating or Characteristic : 250 V, 220 pF - Mark : CBTR Evaluation 2. Y-Capacitor (C801,C802) - Manufacture : Waisin Technology Corp. - Model : AH - Rating or Characteristic : 250 V, 220 pF - Mark : CBTR Evaluation 3. Y-Capacitor (C801,C802) - Manufacture : TDK Corporation - Model : CD - Rating or Characteristic : 250 V, 220 pF - Mark : CBTR Evaluation o Component is changed · Before 1. Fan - Manufacture : AVC - Model : DBTB0428B2G - Rating or Characteristic : 12 Vd.c., 1.5 A o Reissue by missing of certificate (YU10485-16001)	-