



안전확인신고증명서 Confirmation Letter of Declaration

신고번호 : XU101233-18005C
(Application No.)

신고회사명 : Astec Power Philippines, Inc.
(Applicant)

주소 : 104 Laguna Boulevard, Laguna Technopark, 4026 Sta. Rosa, Laguna, Philippines
(Address)

제품명 : 컴퓨터용 전원공급장치
(Product)

기본모델명 : DS2400SPE-3
(Basic Model)

파생모델명 (Series Model) :

정격/안전기준상의 모델 구분 : I/P: 100-120 Vac/200-240 Vac, 50/60 Hz, Max. 16 A OR I/P: 240 Vdc, Max 16.0 A DC O/P At input: 100-120 Vac: +12.2 V, 114.75 A max., +12 Vsb, 3.5 A max. Total output power not exceed 1,400 W.

(Rating)

안전기준 : K 60950-1(2011-12)
(Standard)

본 확인신고는 제조국명 : 필리핀
제조업자명 : Astec Power Philippines, Inc.
제조공장의 주소 : 104 Laguna Boulevard, Laguna Technopark, 4026 Sta. Rosa, Laguna, Philippines
다수 공장의 명 : [별첨]의 제품에만 해당함

전기용품 및 생활용품 안전관리법 시행규칙 제28조제1항, 같은 조 제3항, 제29조제2항 또는 제34조제2항에 따라 안전확인신고증명서를 발급합니다.
We issue this Confirmation Letter of Declaration of the safety Confirmation for the above appliances in accordance with Article 28(1), 28(3), 29(2) or 34(2) of the Electrical Appliances and Consumer Products Safety Control Act.

2022년 08월 02일
(Year) (Month) (Day)

한국기계전기전자시험연구원 Korea Testing Certification Institute



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

첨부서류	<ol style="list-style-type: none"> 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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증명서를 받은 자의 유의 사항 Notification for Recipients

1. 본 증명서는 기재된 제조공장에서 생산된 제품으로서 적용된 안전기준에 적합한 경우에 한하여 유효합니다.

(This certificate is valid only when the product meets the safety standards and is produced from the manufacturing factory that states on this certificate.)

2. 본 증명 마크는 본래의 의미와 다르게 사용자가 오해를 일으킬 수 있는 방법으로 광고, 카탈로그 등에 사용하면 인증정지 또는 취소의 사유가 됩니다.

(Ceasation or cancellation of the certification may occur if the actual meaning of the Certification Mark is misled to the public by false advertisement on a overstated catalog of the product.)

3. 다음과 같은 사유가 발생할 경우에는 안전인증기관에 확인증명 변경 신청을 하여 재교부 받아야 합니다.

(In case of the following events, the Confirmation Letter of Declaration shall be reapplied and reissued for revision)

- 1) 제조자, 대표자, 주소 등 증명서 기재내용의 변경
(Revisions in contents of the certificate such as manufacturer representative, address and etc.)
- 2) 파생모델의 추가, 변경 또는 삭제 (Additions, changes, or removals of series model)
- 3) 안전관리 부품의 변경 또는 추가
(Additions or changes in components which are listed on certificate)
- 4) 증명서의 분실 또는 훼손 (Loss or damage of the certificate)

4. 증명서를 받은 자는 다음 사항을 이행하여야 합니다.

(Recipients of the Certificate shall comply with the followings.)

- 1) 증명 표시 등 증명 요건의 유지관리

(Maintaining and preserving the Mark and other certification requirements)

- * 증명을 받기 이전 또는 정지, 취소된 이후 생산된 제품에 증명 표시를 하면 법에 의거 처벌을 받게 됩니다.

(It will be punished by the law of the certification mark is used before the issue (or after suspension or cancellation) of the certification.)

- 2) 자체 검사의 실시 및 그 기록관리 (Self-testing and record keeping)

- * 증명을 받은 자는 제품검사를 철저히 실시하여 제품의 품질이 안전기준에 미달되지 않도록 유의.

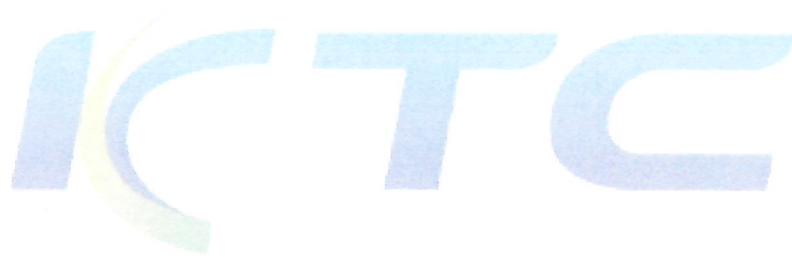
(Recipients of the Certificate shall conduct product inspection strictly for products to comply with the safety standards)

인증시의 조건: 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.
Conditions of Certification : In the production of this product, conduct a self-test and do not miss and change the registered components.



다수의 공장 현황(The status of Multiple Factories)

No	현황	
1	다수의 공장의 명(Name)	Astec Power Philippines Inc.
	주 소(Address)	Main Road Cor. Road J Cavite Economic Zone Authority, Tejeros Convention, Rosario Cavite, Philippines 4106
	제조국명(Origin)	필리핀



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(Certificate No)

접수번호 : 202112160006

(Receipt No)

1. 기본모델 · 파생모델의 내용 (General Descriptions of Certified Products)

1.1 제품의 설명 (Product description)

인증제품의 개요는 다음과 같다.

(Information on certified basic model product is as follow)

구 분 (Section)	내 용 (Description)
용도 (Normal use)	Building in power supply
내부구조 (Internal construction)	Provided with reinforced insulation between primary and secondary, basic insulation between primary and chassis.
외부구조 (External construction)	Provided with metal enclosure and appliance inlet.
기타(others)	Class I, CB Test Certificate is issued by UL Demko (DK-74892-M2-UL) I/P: 200-240 Vac or 240 Vdc:+12.2 V, 196.72 A max. +12 Vsb, 3.5 A max.Total O/P not exceed 2400 W

1.2 전기용품의 표시 : 전기용품 및 생활용품 안전관리법 시행규칙 제37조(안전확인대상제품의표시)에 따라 표시한다.

(Marking of KC Mark : Marking shall comply with the Article 37 of the Enforcement Rule of the Electrical Appliances and Consumer products Safety Control Act.)

1.3 등록모델 (Registered Models)

구분 (Class)	모델명 및 정격 (Model / Rating)	기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	DS2400SPE-3 I/P: 100-120 Vac/200-240 Vac, 50/60 Hz, Max. 16 A OR I/P: 240 Vdc, Max 16.0 A DC O/P At input: 100-120 Vac: +12.2 V, 114.75 A max., +12 Vsb, 3.5 A max. Total output power not exceed 1,400 W.	

2. 안전관리 부품 및 재질목록(List of Critical Components)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Chassis	Interchangeable	Interchangeable	Galvanized Steel. See Enclosure ID 7-02 for Cover Chassis, ID 7-03 for Base Chassis	Tested as part of the unit
AC Inlet	Inalways	0722	Rated min. 16 A, 250 Vac, min. 70 °C. Complied Connector Current Interruption Test.	IEC

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부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
AC Inlet (Alt.)	Rong Feng	SS-3B	Rated min. 16 A, 250 Vac, min. 70 °C. Complied Connector Current Interruption Test.	IEC
Fuse (F101)	Littelfuse	487 series	20 A min. 420 Vac/420Vdc. Covered with UL recognized YDPU2 tubing.	IEC
Fuse (F101) (Alt.)	Hollyland	5HF Series	20 A min. 420 Vac/420Vdc. Covered with UL recognized YDPU2 tubing.	IEC
Earthing wire	Interchangeable	Interchangeable	Green and yellow. Rated min. 300 V, VW-1, min. 105°C, Min. 16 AWG	Tested as part of the unit
Live/Neutral Wire	Interchangeable	Interchangeable	Rated min. 300 V, VW-1, min. 105°C, Min. 16 AWG	
Y-Capacitor (CAP08)	Murata	KY series	Max. 1 nF, Min. 250 V, Marked with Y2, IEC 60384-14 certified 21 day damp heat	IEC
Y-Capacitor (CAP08) (Alt.)	TDK	CS series	Max. 1 nF, Min. 250 V, Marked with Y2, IEC 60384-14 certified 21 day damp heat	IEC
Y-Capacitor (CAP08) (Alt.)	Walsin	AC series	Max. 1 nF, Min. 250 V, Marked with Y2, IEC 60384-14 certified 21 day damp heat	IEC
Y-Capacitor (C136, C137, C138, C139)	Kemet	F881 series	Max. 2.2 nF, Min. 250 V, Marked with Y2, IEC 60384-14 certified 21 day damp heat	IEC

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부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Y-Capacitor (C136, C137, C138, C139) (Alt.)	Vishay	338 6, 336 6, F1710	Max. 2.2 nF, Min. 250 V, Marked with Y2, IEC 60384-14 certified 21 day damp heat	IEC
Y-Capacitor (C136, C137, C138, C139) (Alt.)	Walsin	AC series	Max. 2.2 nF, Min. 250 V, Marked with Y2, IEC 60384-14 certified 21 day damp heat	IEC
X-Capacitor (C125, C126)	Xiamen Faratronic	MKP62 series	Max. 1 μ F, Min. 305 V, Marked with X2, IEC 60384-14 certified 21 day damp heat	IEC
X-Capacitor (C125, C126) (Alt.)	Hua Jung	MKP series	Max. 1 μ F, Min. 305 V, Marked with X2, IEC 60384-14 certified 21 day damp heat	IEC
Common Mode Choke (L100)	Astec/Artesyn	801-000616-XXXX (XXXX is any number which do not affect safety)	130° C	Tested as part of the unit
Choke Coil (L102)	Astec/Artesyn	801-007584-XXXX (XXXX is any number which do not affect safety)	130° C	Tested as part of the unit
Choke Coil (L103)	Astec/Artesyn	801-007587-XXXX (XXXX is any number which do not affect safety)	130° C	Tested as part of the unit
Varistor (MOV100)	Joyin	14N471K	Min. 300 V, V-0 coating	IEC
Varistor (MOV100) (Alt.)	Thinking	TVR14471 series	Min. 300 V, V-0 coating	IEC
Varistor (MOV100) (Alt.)	Walsin	SR471K14D	Min. 300 V, V-0 coating	IEC

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부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Heat Shrinkable Tube of CAP08, F101	Changyuan	CB-HFT	Min. VW-1, 105° C Min. 0.25 mm thick	Tested as part of the unit
Heat Shrinkable Tube of CAP08, F101 (Alt.)	Sumitomo	Sumitube F2, Sumitube F32	Min. VW-1, 105° C Min. 0.25 mm thick	Tested as part of the unit
Heat Shrinkable Tube of CAP08, F101 (Alt.)	Changyuan	CYG-ZHP	Min. VW-1, 105° C Min. 0.25 mm thick	Tested as part of the unit
Heat Shrinkable Tube of CAP08, F101 (Alt.)	Shenzhen Woer	RSFR-HPF	Min. VW-1, 105° C Min. 0.25 mm thick	Tested as part of the unit
Heat Shrinkable Tube of CAP08, F101 (Alt.)	Interchangeable	Interchangeable	Min. VW-1, 105° C Min. 0.25 mm thick	Tested as part of the unit
Heat Shrinkable Tube of Fan, LED	Changyuan	CB-HFT	Min. VW-1, 105° C Min. 0.4 mm thick	Tested as part of the unit
Heat Shrinkable Tube of Fan, LED (Alt.)	Changyuan	CYG-ZHP	Min. VW-1, 105° C Min. 0.4 mm thick	Tested as part of the unit
Heat Shrinkable Tube of Fan, LED (Alt.)	Shenzhen Woer	RSFR-HPF	Min. VW-1, 105° C Min. 0.4 mm thick	Tested as part of the unit
Heat Shrinkable Tube of Fan, LED (Alt.)	Interchangeable	Interchangeable	Min. VW-1, 105° C Min. 0.4 mm thick	Tested as part of the unit
Relay (K100)	Song Chuan	207H series	Coil rated: 12 Vdc	IEC
Relay (K100) (Alt.)	Hongfa	HF152FD	Coil rated: 12 Vdc	IEC
Relay (K101) (Alt.)	Interchangeable	Interchangeable	Coil rated: 12 Vdc	IEC
Fan	Sunon	VF40281BX series	DC 12 V, 2.1 A, 35.9 CFM	UL
Fan (Alt.)	Nidec	W40S12BS4EC5 series	DC 12 V, 2.15 A, 34.3 CFM	UL
Fan (Alt.)	AVC	DBPH0428B2S	DC 12 V, 2.0 A, 33.92 CFM	UL

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부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Power Transistor (Q317, Q318, Q319, Q320)	Interchangeable	Interchangeable	Min. 30.8 A, Min. 600 V	Tested as part of the unit
Heat Sink (HTSK101) (mouonted for Q102)	Interchangeable	Interchangeable	Aluminum	Tested as part of the unit
Heat Sink (HTSK100) (near K100)	Interchangeable	Interchangeable	Aluminum	Tested as part of the unit
Heat Sink (HTSK102) (near L100)	Interchangeable	Interchangeable	Aluminum	Tested as part of the unit
Power Transformer (T1)	Astec/Artesyn	801-007449-0001	Provided with Class F insulation system under E94225, (OBJY2), designated 155-10C	Tested as part of the unit
Holder, Bobbin of T1	El Dupont	FR530	Black color, V-0, min. 0.35 mm thick, 155°C	Tested as part of the unit
TIW of T1	Hoi Luen	THL-F-SB/ THL-F	Min D=0.6 mm, 155°C	UL
TIW of T1 (Alt.)	Totoku	TIW-3 SB/TIW-3	Min D=0.6 mm, 155°C	UL
Wrap Tape of T1	Yahua	CT series	130°C	UL
Wrap Tape of T1 (Alt.)	Symbio	35660 series, MY series	130°C	UL
Wrap Tape of T1 (Alt.)	3M	1350F series	130°C	UL
Wrap Tape of T1 (Alt.)	P LEO	1P801	130°C	UL
Gate Drive Transformer (T300)	Astec/Artesyn	801-005834-000 2, 801-005834-0402	Provided with Class F insulation system under E94225, (OBJY2), designated 155-10C	Tested as part of the unit

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Holder, Bobbin of T300	Solvay	R-4	Natural color. 130°C, V-0, min. 0.38 mm thick	Tested as part of the unit
TIW of T300	Rubadue	T-AA-X-XX -T-XXX-L series, T32A series	Min. D=0.2 mm, 155°C	UL
TIW of T300 (Alt.)	Rubadue	S-AA-X-XX F-X-N series, S32A series	Min. D=0.2 mm, 155°C	UL
TIW of T300 (Alt.)	Hoi Luen	THL-F	Min. D=0.2 mm, 155°C	UL
TIW of T300 (Alt.)	Hoi Luen	THL-F-SB	Min. D=0.2 mm, 155°C	UL
TIW of T300 (Alt.)	Totoku	TIW-3	Min. D=0.2 mm, 155°C	UL
TIW of T300 (Alt.)	Totoku	TIW-3 SB	Min. D=0.2 mm, 155°C	UL
Aux Transformer (T900)	Astec/Artesyn	801-006238-0504	Provided with Class F insulation system under E94225, (OBJY2), designated 155-10C	Tested as part of the unit
Base/ Bobbin of T900	El Dupont	FR530	Black color, V-0, min. 0.35 mm thick, 155°C	UL
TIW of T900	Hoi Luen	THL-F-SB/THL-F	Min D=0.9 mm, 155°C	UL
TIW of T900 (Alt.)	Totoku	TIW-3 SB/TIW-3	Min D=0.9 mm, 155°C	UL
TIW of T900 (Alt.)	Rubadue	T-AA-X-XX-F-XXX-M series, T19A series	Min D=0.9 mm, 155°C	UL
TIW of T900 (Alt.)	New England	ETFE, W(18 t o 40)ScccExxxxxx xxxxxx+series, W19T series	Min D=0.9 mm, 155°C	UL
Wrap Tape of T900	Yahua	CT series	130°C	UL

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Wrap Tape of T900 (Alt.)	Symbio	35660 series, MY series	130°C	UL
Wrap Tape of T900 (Alt.)	3M	1350F series	130°C	UL
Wrap Tape of T900 (Alt.)	P LEO	1P801	130°C	UL
Opto-coupler (U114, U319, U320, U321, U322, U324)	Everlight	EL-101X series (where X can be any number)	Min. 5000 Vac isolation voltage	IEC
Opto-coupler (U114, U319, U320, U321, U322, U324) (Alt.)	Lite-On	LTV-100X series (where X can be any number)	Min. 5000 Vac isolation voltage	IEC
Opto-coupler (U114, U319, U320, U321, U322, U324) (Alt.)	Toshiba	TLP385 series	Min. 5000 Vac isolation voltage, Rated min. 110°C	IEC
Insulator (located at Base Chassis)	El Dupont	Nomex series, type 410	V-0 Min. 0.13 mm thick, 220°C. Min. size refer to spec.	Tested as part of the unit
Insulator (located at Cover Chassis)	El Dupont	Nomex series, type 410	V-0 Min. 0.13 mm thick, 220°C. Min. size refer to spec.	Tested as part of the unit
Bridge Rectifier (D109)	Interchangeable	Interchangeable	Min. 25 A., Min. 800 V	Tested as part of the unit
PWB	See Section General at Vol.X1 for sources conducted Thermal Cycling	See Section General at Vol.X1 for sources conducted Thermal Cycling	UL V-0, 130°C	UL

3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2018/08/16	안전확인(기본)
2018/12/12	안전확인(부품)

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2022/08/02	다수공장
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4. 기타(Carefully Informed Note)

- 1) 안전관리부품 및 재질목록에 기재된 사항은 안전에 직접적인 영향을 주는 부분이므로 내용을 변경 또는 복수등재를 원하는 경우 안전인증변경신청 또는 안전확인변경신고를 하여야 합니다. 안전인증변경신청 또는 안전확인변경신고를 하지 않고 임의로 변경하는 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될수 있습니다.

The certificate holder should apply for a revision of the certificate if the registered critical components are to be changed, modified or alternated. Should the contents of Certificate are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Consumer Products Safety Control Act.

- 2) 공장주소(전화번호포함), 대표자, 상호 및 부품변경, 신고인정보 등 안전인증 또는 안전확인신고의 내용이 변경되었을 때, 안전인증변경신청 또는 안전확인변경신고를 하지 않을 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.

Should a factory address, president name, manufacturer name and critical component are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Customer Products Safety Control Act.

- 3) 조건부 인증사항 (Conditional certification items) :



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안전인증번호 : XU101233-18005C

접수번호 : 202112160006

NO. 1 KC Label



한국기계전기전자시험연구원
Korea Testing Certification

