



# 全漢企業股份有限公司

## 安規證書

料號 :  
Model Name : FSP150-ABAN3,FSP150-ABBN3  
版次 : 03  
文件編號 : SFD-00001294  
作者 : doration/田婷瑋(FSP)  
Model No/Type : FSP150-ABAN3,FSP150-ABBN3  
SFA NO. : SFA21121080  
Trade mark : -  
安規種類 : KC/資訊類  
發行日期 : 2023/09/06 17:20:27  
備註 : 2016IC結構,仲漢廠地址更新



# 안전인증서 Safety Certificate

안전인증번호 : HU10142-17158D  
(Application No.)

제조업자/수입업자명 : Zhonghan Electronics (Shenzhen) Co.,Ltd.  
(Manufacturer/importer)

주 소 : Building 4(101) & Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuHai  
(Address) Town, BaoAn Dist., ShenZhen City, Guangdong, China

제 품 명 : 직류전원장치  
(Product)

기본모델명 : FSP150-ABAN3  
(Basic Model)

파생모델명 (Series Model) :  
FSP150-ABBN3

정격/안전기준상의 모델구분 : 100-240 V~, 50-60 Hz, 2.0 A (O/P : 19 Vdc, 7.89 A)  
(Rating)

시험기준 : K 60950-1(2011-12)  
(Standard)

본 인증서는 제 조 국 명 : 중국  
제조업자명 : Zhonghan Electronics (Shenzhen) Co.,Ltd.

제조공장의 주소 : Building 4(101) & Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei  
Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong, China  
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We issue this Safety Certificate for the above appliances in accordance with Article 9(2), 9(4), 10(2)  
or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2023 년 05 월 22 일  
(Year) (Month) (Day)

한국기계전기전자시험연구원  
Korea Testing Certification Institute



※ 이 인증서는 「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

- 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
- 기본모델·파생모델의 내용(Description of the basic and series model)
- 안전인증의 변경 현황(Revisions Status)

## 안전인증을 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. 안전인증 마크는 본래의 의미와 다르게 사용자가 오해를 일으킬 수 있는 방법으로 광고, 카탈로그 등에 사용하면 인증정지 또는 취소의 사유가 됩니다.  
(Cessation or cancellation of the certification may occur if the actual meaning of the Safety Certification Mark is misled to the public by false advertisement on a catalog of the product.)
3. 다음과 같은 사유가 발생할 경우에는 안전인증기관에 안전인증 변경 신청을 하여 안전인증서를 재교부 받아야 합니다.  
(In case of the following events, the Safety Certificate shall be reapplied and reissued for revision)
  - 1) 제조자, 대표자, 주소 등 인증서 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 the certificate)
4. 안전인증을 받은 자는 다음 사항을 이행하여야 합니다.  
(Recipients of the Safety Certificate shall comply with the followings.)
  - 1) 안전인증 표시 등 인증요건의 유지관리  
(Maintaining and preserving the Mark and other certification requirements)
    - \* 안전인증을 받기 이전 또는 정지, 취소된 이후 생산된 제품에 안전인증 표시를 하면 법에 의거 처벌을 받게 됩니다.  
(It will be punished by the law if 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)
    - \* 안전인증을 받은 자는 제품검사를 철저히 실시하여 제품의 품질이 안전기준에 미달되지 않도록 유의.  
(Recipients of the Safety Certificate shall conduct products inspection strictly for products to comply with the safety standards)
5. 안전인증을 받을자는 전기용품 및 생활용품 안전관리법 제 7조에 따라 2년에 1회 정기검사를 실시하여야 한다.  
(Recipients of the Safety Certificate shall require to inspect once in two years according to the Article 7 section of the the Electrical Appliances and Consumer Products Safety Control Act.)
6. 인증서(증명서)에는 진위여부 확인을 위해 다음과 같은 사항이 적용되어 있습니다.
  - 1) 문서관리번호 (문서관리번호 노출시 CS홈페이지를 통해 기술문서 내용이 조회 가능함으로 사본 등 제출시 노출되지 않도록 주의하시기 바랍니다.)
  - 2) 시점확인필
  - 3) 2D바코드

안전인증시의 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.

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접수번호 : KCA2023-05680  
(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<br>(Normal use)              | The apparatus designed to be used for converting AC main voltage to DC low voltage. |
| 내부구조<br>(Internal construction) | The apparatus consists of Switching transformer, rectifying part etc.               |
| 외부구조<br>(External construction) | Providing with plastic enclosure having min. V-1 flammability and appliance inlet.  |
| 기타(others)                      | Class I, Tested by JPTUV-076037-M2, JPTUV-131159                                    |

1.2 전기용품의 표시 : 전기용품 및 생활용품 안전관리법 시행규칙 제20조(안전인증의 표시)에 따라 표시한다.

(Marking of KC Mark : Marking shall comply with the Article 20 of the Enforcement Rule of the Electrical Appliances and Consumer products Safety Control Act. )

1.3 등록모델 (Registered Models)

| 구분<br>(Class)           | 모 델 명 및 정 격<br>(Model / Rating) |                                                          | 기본모델과의 차이점<br>(Difference between basic model and series model)                                     |
|-------------------------|---------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 기본모델<br>(Basic model)   | FSP150-ABAN3                    | 100-240 V~, 50-60 Hz,<br>2.0 A (O/P : 19 Vdc,<br>7.89 A) |                                                                                                     |
| 파생모델<br>(Variant model) | FSP150-ABBN3                    |                                                          | FSP150-ABBN3 is similar to basic model except for model designation and type of appliance AC inlet. |

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

| 부품명(회로기호)<br>Components(Part no.)               | 제조사(상표명)<br>Manufacturer(Brand)    | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>(Technical Data)             | 인증규격<br>(Certification) |
|-------------------------------------------------|------------------------------------|------------------------|------------------------------------------|-------------------------|
| Plastic Enclosure<br>(Top and Bottom)           | Lotte Chemical Corporation         | HN-1064(+)             | 1.75 mm thick, V-0 min., 130°C min.      | UL                      |
| Plastic Enclosure<br>(Top and Bottom)<br>(Alt.) | Sabic Innovative Plastics US L L C | 945 (GG)               | 1.75 mm thick, V-0 or better, 120°C min. | UL                      |

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| 부품명(회로기호)<br>Components(Part no.)                                   | 제조사(상표명)<br>Manufacturer(Brand)                | 모델명(형식)<br>Model(Type)                                      | 정격 또는 특성<br>(Technical Data)                | 인증규격<br>(Certification) |
|---------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|---------------------------------------------|-------------------------|
| Plastic Enclosure<br>(Top and Bottom)<br>(Alt.)                     | Lotte Chemical<br>Corporation                  | EN-1052(+)                                                  | 1.75 mm thick, V-0<br>or better, 130°C min. | UL                      |
| AC Inlet (SC101)<br>(C14 type for model<br>FSP150-ABAN3)            | Tecx-Unions<br>Technology Corp.                | TU-301-A,<br>TU-301-S,<br>TU-301-SP series                  | 10A, 250Vac, 70°C                           | IEC                     |
| AC Inlet (SC101)<br>(C14 type for model<br>FSP150-ABAN3)<br>(Alt.)  | Rong Feng Industrial<br>Co., Ltd.              | SS-120, SS-7B                                               | 10A, 250Vac, 70°C                           | IEC                     |
| AC Inlet (SC101)<br>(C14 type for model<br>FSP150-ABAN3)<br>(Alt.)  | Solteam Electronics<br>Co., Ltd.               | ST-01                                                       | 10A, 250Vac, 70°C                           | IEC                     |
| AC Inlet (SC101)<br>(C14 type for model<br>FSP150-ABAN3)<br>(Alt.)  | Zhe Jiang Bei Er Jia<br>Electronic Co., WnLtd. | ST-A01-001L,<br>ST-A01-002L,<br>ST-A01-003J,<br>ST-A01-003K | 10A, 250Vac, 70°C                           | IEC                     |
| AC Inlet (SC101)<br>(C14 type for model<br>FSP150-ABAN3)<br>(Alt.)  | Canal Electronic Co.,<br>Ltd.                  | KS-201, KS-202,<br>KS-303, KS-406,<br>KS-101                | 10A, 250Vac, 70°C                           | IEC                     |
| AC Inlet (SC101)<br>(C14 type for model<br>FSP150-ABAN3)<br>(Alt.)  | Rich Bay Co., Ltd.                             | R-301SN                                                     | 10A, 250Vac, 70°C                           | IEC                     |
| AC Inlet (SC101)<br>(C14 type for model<br>FSP150-ABAN3<br>) (Alt.) | HCR Electronics Co.,<br>Ltd.                   | SK01                                                        | 10A, 250Vac, 70°C                           | IEC                     |
| AC Inlet (SC101)<br>(C14 type for model<br>FSP150-ABAN3<br>) (Alt.) | Inalways Corporation                           | 0714-... Series                                             | 10 A, 250 Vac, 70 °C                        | IEC                     |
| AC Inlet (SC101)<br>(C14 type for model<br>FSP150-ABAN3<br>) (Alt.) | Inalways Corporation                           | 0711 series                                                 | 10 A, 250 Vac, 70 °C                        | IEC                     |
| AC Inlet (SC101) (C6<br>type, for model<br>FSP150-ABBN3)            | Canal Electronic Co.,<br>Ltd.                  | KC-101 series                                               | 2.5A, 250Vac, 70°C                          | IEC                     |

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| 부품명(회로기호)<br>Components(Part no.)                         | 제조사(상표명)<br>Manufacturer(Brand)           | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>(Technical Data) | 인증규격<br>(Certification) |
|-----------------------------------------------------------|-------------------------------------------|------------------------|------------------------------|-------------------------|
| AC Inlet (SC101) (C6 type, for model FSP150-ABBN3) (Alt.) | Rich Bay Co., Ltd.                        | R-30790                | 2.5A, 250Vac, 70°C           | IEC                     |
| AC Inlet (SC101) (C6 type, for model FSP150-ABBN3) (Alt.) | Rong Feng Industrial Co., Ltd.            | RF-190                 | 2.5A, 250Vac, 70°C           | IEC                     |
| AC Inlet (SC101) (C6 type, for model FSP150-ABBN3) (Alt.) | Solteam Electronics Co., Ltd.             | ST-03                  | 2.5A, 250Vac, 70°C           | IEC                     |
| AC Inlet (SC101) (C6 type, for model FSP150-ABBN3) (Alt.) | Tecx-Unions Technology Corp.              | TU-333                 | 2.5A, 250Vac, 70°C           | IEC                     |
| AC Inlet (SC101) (C6 type, for model FSP150-ABBN3) (Alt.) | HCR Electronics Co., Ltd.                 | SK03                   | 2.5A, 250Vac, 70°C           | IEC                     |
| AC Inlet (SC101) (C6 type, for model FSP150-ABBN3) (Alt.) | Zhe Jiang Bei Er Jia Electronic Go., Ltd. | ST-A04-001             | 2.5A, 250Vac, 70°C           | IEC                     |
| AC Inlet (SC101) (C6 type, for model FSP150-ABBN3) (Alt.) | Inalways Corporation                      | 0724 Series            | 2.5A, 250Vac, 70°C           | IEC                     |
| Fuse (F101)                                               | Littelfuse, Inc.Wickmann - Werke          | 392                    | T4.0AL, 250Vac               | IEC                     |
| Fuse (F101) (Alt.)                                        | Suzhou Walter Electronic Co., Ltd.        | 2010 series            | T4.0AL, 250Vac               | IEC                     |
| Fuse (F101) (Alt.)                                        | BEL Fuse Ltd.                             | RST-series             | T4.0AL, 250Vac               | IEC                     |
| Fuse (F101) (Alt.)                                        | Conquer Electronics Co., Ltd.             | MST-series             | T4.0AL, 250Vac               | IEC                     |
| Fuse (F101) (Alt.)                                        | Cooper Bussmann L L C                     | SS-5                   | T4.0AL, 250Vac               | IEC                     |

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| 부품명(회로기호)<br>Components(Part no.)     | 제조사(상표명)<br>Manufacturer(Brand)             | 모델명(형식)<br>Model(Type)                                                                             | 정격 또는 특성<br>(Technical Data)                                            | 인증규격<br>(Certification) |
|---------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------|
| Varistor (VA101)<br>(Optional)        | Thinking Electronic<br>Industrial Co., Ltd. | TVR10471-D,<br>TVR10471-V,<br>TVR10471-M,<br>TVR14471,<br>TVR14471-D,<br>TVR14471-V,<br>TVR14471-M | 300Vac,<br>385Vdc(Flame class<br>of body coating<br>complied with V-0)  | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.) | Thinking Electronic<br>Industrial Co., Ltd. | TVR10511-D,<br>TVR10511-V,<br>TVR10511-M,<br>TVR14511,<br>TVR14511-D,<br>TVR14511-V,<br>TVR14511-M | 320 Vac, 410Vdc<br>(Flame class of body<br>coatingcomplied with<br>V-0) | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.) | Thinking Electronic<br>Industrial Co., Ltd. | TVR10561-D,<br>TVR10561-V,<br>TVR10561-M,<br>TVR14561,<br>TVR14561-D,<br>TVR14561-V,<br>TVR14561-M | 350Vac, 450Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.) | Thinking Electronic<br>Industrial Co., Ltd. | TVR10621-D,<br>TVR10621-V,<br>TVR10621-M,<br>TVR14621,<br>TVR14621-D,<br>TVR14621-V,<br>TVR14621-M | 395Vac, 510Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.) | Thinking Electronic<br>Industrial Co., Ltd. | TVR10681-D,<br>TVR10681-V,<br>TVR10681-M,<br>TVR14681,<br>TVR14681-D,<br>TVR14681-V                | 420Vac, 560Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.) | Thinking Electronic<br>Industrial Co., Ltd. | TVR10751-D,<br>TVR10751-V,<br>TVR10751-M,<br>TVR14751,<br>TVR14751-D,<br>TVR14751-V,<br>TVR14751-M | 465Vac, 615Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |

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| 부품명(회로기호)<br>Components(Part no.)                         | 제조사(상표명)<br>Manufacturer(Brand)                         | 모델명(형식)<br>Model(Type)          | 정격 또는 특성<br>(Technical Data)                                            | 인증규격<br>(Certification) |
|-----------------------------------------------------------|---------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------|-------------------------|
| Varistor (VA101)<br>(Optional) (Alt.)                     | Guangxi New Future<br>Information Industry<br>Co., Ltd. | 10D471K,<br>14D471K,<br>20D471K | 300Vac, 385Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.)                     | Guangxi New Future<br>Information Industry<br>Co., Ltd. | 10D511K,<br>14D511K             | 320Vac, 415Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.)                     | Guangxi New Future<br>Information Industry<br>Co., Ltd. | 10D561K,<br>14D561K             | 350Vac, 460Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.)                     | Guangxi New Future<br>Information Industry<br>Co., Ltd. | 10D621K,<br>14D621K             | 385Vac, 505Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.)                     | Guangxi New Future<br>Information Industry<br>Co., Ltd. | 10D681K,<br>14D681K             | 420Vac, 560Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |
| Varistor (VA101)<br>(Optional) (Alt.)                     | Guangxi New Future<br>Information Industry<br>Co., Ltd. | 14D751K                         | 460Vac, 615Vdc<br>(Flame class of body<br>coating complied<br>with V-0) | IEC                     |
| Choke (LF101)                                             | FSP / SPI                                               | 8LM00352                        | 130°C                                                                   | -                       |
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional)        | Hua Jung<br>components Co., Ltd.                        | MKP                             | Max. 0.33μF, min.<br>250Vac                                             | IEC                     |
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional) (Alt.) | Okaya Electric<br>Industries Co., .Ltd.                 | LE(-*)                          | Max. 0.33μF, min.<br>250Vac                                             | IEC                     |
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional) (Alt.) | Okaya Electric<br>Industries Co., Ltd.                  | RE-Series                       | Max. 0.33μF, min.<br>250Vac                                             | IEC                     |
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional) (Alt.) | Carli Electronics Co.,<br>Ltd.                          | MPX                             | Max. 0.33μF, min.<br>250Vac                                             | IEC                     |
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional) (Alt.) | Shiny Space<br>Enterprise Co., Ltd.                     | SX1                             | Max. 0.33μF, min.<br>250Vac                                             | IEC                     |

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(Receipt No)

| 부품명(회로기호)<br>Components(Part no.)                         | 제조사(상표명)<br>Manufacturer(Brand)         | 모델명(형식)<br>Model(Type) | 정격 또는 특성<br>(Technical Data) | 인증규격<br>(Certification) |
|-----------------------------------------------------------|-----------------------------------------|------------------------|------------------------------|-------------------------|
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional) (Alt.) | Chiefcon Electronics<br>Co., Ltd.       | CKX                    | Max. 0.33μF, min.<br>250Vac  | IEC                     |
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional) (Alt.) | ZhuHai Sung Ho<br>Electronics Co.,Ltd.  | CMPP                   | Max. 0.33μF, min.<br>250Vac  | IEC                     |
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional) (Alt.) | Ultra Tech Xiphi<br>Enterprise Co.,Ltd. | HQX                    | Max. 0.33μF, min.<br>250Vac  | IEC                     |
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional) (Alt.) | Cheng Tung<br>Industrial Co., Ltd.      | CTX                    | Max. 0.33μF, min.<br>250Vac  | IEC                     |
| X-Capacitor<br>(CX101)(X1 or X2<br>type)(Optional) (Alt.) | Wuxi Jiyang Electron<br>Co., Ltd.       | MKP                    | Max. 0.33μF, min.<br>250Vac  | IEC                     |
| Choke (LF102)                                             | FSP / SPI                               | 8LM05152               | 130°C                        | -                       |
| Choke (L603) (Alt.)                                       | FSP / SPI                               | 8LM01758               | 130°C                        | -                       |
| Choke (L603)                                              | FSP / SPI                               | 8LM05338               | 130°C                        | -                       |
| PFC Choke (L601)                                          | FSP / SPI                               | 8TI01856               | 130°C                        | -                       |
| PFC Choke (L601)<br>(Alt.)                                | FSP / SPI                               | 8TI01942               | 130°C                        | -                       |
| Transformer (T101)                                        | FSP /SPI                                | 8TT00548               | Class B                      | -                       |
| Transformer (T101)<br>(Alt.)                              | FSP /SPI                                | 8TT00568               | Class B                      | -                       |
| Bridging-Capacitor<br>(CY104) (Y1 type)                   | Walsin Technology<br>Corp.              | AH, Series AS          | Max. 3300pF, min.<br>250V    | IEC                     |
| Bridging-Capacitor<br>(CY104) (Y1 type)<br>(Alt.)         | TDK Corporation                         | CD                     | Max. 3300pF, min.<br>250V    | IEC                     |
| Bridging-Capacitor<br>(CY104) (Y1 type)<br>(Alt.)         | Murata Mfg. Co.,<br>Ltd.                | KX                     | Max. 3300pF, min.<br>250V    | IEC                     |

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(Certificate No)

접수번호 : KCA2023-05680  
(Receipt No)

| 부품명(회로기호)<br>Components(Part no.)                 | 제조사(상표명)<br>Manufacturer(Brand)                        | 모델명(형식)<br>Model(Type)             | 정격 또는 특성<br>(Technical Data) | 인증규격<br>(Certification) |
|---------------------------------------------------|--------------------------------------------------------|------------------------------------|------------------------------|-------------------------|
| Bridging-Capacitor<br>(CY104) (Y1 type)<br>(Alt.) | Murata Mfg Co., Ltd.                                   | RA-series                          | Max. 3300pF, min.<br>250V    | IEC                     |
| Bridging-Capacitor<br>(CY104) (Y1 type)<br>(Alt.) | Success Electronics<br>Co.,Ltd.                        | SB                                 | Max. 2200pF, min.<br>250V    | IEC                     |
| Bridging-Capacitor<br>(CY104) (Y1 type)<br>(Alt.) | Success Electronics<br>Co., Ltd.                       | SE, SF                             | Max. 3300pF, min.<br>250V    | IEC                     |
| Bridging-Capacitor<br>(CY104) (Y1 type)<br>(Alt.) | TDK Corporation                                        | CD (miniature<br>series)           | Max. 3300pF, min.<br>250V    | IEC                     |
| Bridging-Capacitor<br>(CY104) (Y1 type)<br>(Alt.) | Guangdng Huiwan<br>Electronics<br>Technology Co., Ltd. | AR                                 | Max. 3300pF, min.<br>250V    | IEC                     |
| Photo Coupler<br>(PC101)                          | Cosmo Electronics<br>Corp.                             | KT10XX<br>(XX=00-ZZ)               | Dti=0.7mm                    | IEC                     |
| Photo Coupler<br>(PC101) (Alt.)                   | Everlight Electronics<br>Co., Ltd.                     | EL1018, EL1019                     | Dti=0.4mm                    | IEC                     |
| Photo Coupler<br>(PC101) (Alt.)                   | Lite-On Technology<br>Corp.                            | LTV-1007,<br>LTV-1008,<br>LTV-1009 | Dti=0.4mm                    | IEC                     |
| Photo Coupler<br>(PC101) (Alt.)                   | Everlight Electronics<br>Co., Ltd.                     | EL817S1                            | Dti=0.5mm                    | IEC                     |
| Photo Coupler<br>(PC101) (Alt.)                   | Everlight Electronics<br>Co., Ltd.                     | EL817S2                            | Dti=0.4mm                    | IEC                     |
| Photo Coupler<br>(PC101) (Alt.)                   | Vishay<br>Semiconductor<br>GmbH                        | TCLT1008                           | Dti=0.43mm                   | IEC                     |
| Photo Coupler<br>(PC101) (Alt.)                   | Vishay<br>Semiconductor<br>GmbH                        | VOL617A                            | Dti=0.43mm                   | IEC                     |
| Photo Coupler<br>(PC101) (Alt.)                   | Lite-On Technology<br>Corp                             | LTV-817                            | Dti=0.6mm                    | IEC                     |
| Photo Coupler<br>(PC101) (Alt.)                   | CT Micro<br>International<br>Corporation               | CT817A, CT817B,<br>CT817C          | Dti=0.4 mm                   | IEC                     |

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안전인증번호 : HU10142-17158D  
(Certificate No)

접수번호 : KCA2023-05680  
(Receipt No)

| 부품명(회로기호)<br>Components(Part no.)                                                                            | 제조사(상표명)<br>Manufacturer(Brand)           | 모델명(형식)<br>Model(Type)                                                                                                                                         | 정격 또는 특성<br>(Technical Data)                                                                                                                        | 인증규격<br>(Certification) |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Photo Coupler<br>(PC101) (Alt.)                                                                              | CT Micro<br>International<br>Corporation  | CT1017, CT1018,<br>CT1019                                                                                                                                      | Dti=0.4 mm                                                                                                                                          | IEC                     |
| ICX (controllor IC<br>integrating capacitor<br>discharging<br>function) (U601) (for<br>PCB Type<br>3BD02696) | NXP Semiconductor<br>Taiwan Ltd.          | TEA19162T/2                                                                                                                                                    | 100-240 Vac, 47-63<br>Hz                                                                                                                            | IEC                     |
| Bridge diode<br>(BD101)                                                                                      | Interchangeable                           | Interchangeable                                                                                                                                                | Min. 10A, min. 600V                                                                                                                                 | -                       |
| Resistors (R606,<br>R607, R608, R609 in<br>series)                                                           | Interchangeable                           | Interchangeable                                                                                                                                                | Equivalent of<br>Resistance total min.<br>10MΩ                                                                                                      | -                       |
| Bleeder Resistor<br>(R101, R102)<br>(optional)                                                               | Interchangeable                           | Interchangeable                                                                                                                                                | Each max. 1.5MΩ,<br>min. 1/4W                                                                                                                       | -                       |
| Current Resistor<br>(R621) (for PCB Type<br>3BD02696)                                                        | Interchangeable                           | Interchangeable                                                                                                                                                | Min. 0.056Ω, min.<br>1W                                                                                                                             | -                       |
| ICX (controllor IC<br>integrating capacitor<br>discharging<br>function) (U101) (for<br>PCB type<br>3BD03679) | NXP SEMICONDUCT<br>ORS NETHERLANDS<br>B V | TEA2016YZTN(Y,<br>Z could be A~Z or<br>0~9 or blank<br>within for specific<br>application; N<br>could be any<br>combination by /<br>or A~Z or 0~9 or<br>blank) | Tested voltage: 100 -<br>264Vac, 60 Hz, Total<br>cap.: 0.1 - 4.6 μF,<br>Total resistors: min. 5<br>MΩ, Diode: Min.<br>400V, min. 0.5A<br>(optional) | IEC                     |
| Current Resistor<br>(R621) (For PCB type<br>3BD03679)                                                        | Interchangeable                           | Interchangeable                                                                                                                                                | Min. 0.035Ω, min.<br>1W                                                                                                                             | -                       |
| PCB                                                                                                          | Interchangeable                           | Interchangeable                                                                                                                                                | V-1 or better, 130°C<br>min.                                                                                                                        | UL                      |

3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

| 일자(Date) | 발급현황(Status of issues)         |
|----------|--------------------------------|
|          | 변경내용(Modification of Contents) |

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# 기술문서 Technical Document

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안전인증번호 : HU10142-17158D

(Certificate No)

접수번호 : KCA2023-05680

(Receipt No)

|            |                                 |
|------------|---------------------------------|
| 2017/10/18 | 기본+파생모델등록(Basic + Series Model) |
|            |                                 |
| 2022/04/18 | 부품변경                            |
|            |                                 |
| 2022/04/25 | 부품변경                            |
|            |                                 |
| 2023/05/19 | 주소(제조사),분실재발급                   |
|            |                                 |

## 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) 정기검사(시료채취포함)를 거부, 방해 또는 기피하는 경우에는 전기용품 및 생활용품 안전관리법 제 11조에 따라 안전인증이 취소될수 있습니다.

If Follow-up Factory Inspection, including sampling representative model by 11 categories of the certified product at factory-site for re-testing, should not has been arranged by Certificate holder, Safety Certification(KC Mark) may be withdrawn according to the Article 11 of the Electrical Appliances and Consumer Products Safety Control Act.

- 3) 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.

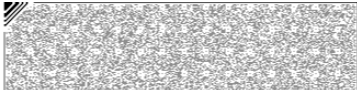
Should a factory address, president name, manufacturer name and critical component are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Customer Products Safety Control Act.

- 4) 조건부 인증사항 (Conditional certification items) :

[서식 CP401-18-00]

FCE6-4798-9451-78D4

|                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <div>방송통신기자재등의 적합등록 필증</div> <div>Registration of Broadcasting and Communication Equipments</div>                                                                                                                                                                                                                                                                                                         |                                                |
| 상호 또는 성명<br><small>Trade Name or Registrant</small>                                                                                                                                                                                                                                                                                                                                                       | Zhonghan Electronics (Shenzhen) Co., Ltd.      |
| 기자재명칭(제품명칭)<br><small>Equipment Name</small>                                                                                                                                                                                                                                                                                                                                                              | Switching Power Adapter                        |
| 기기부호/추가 기기부호<br><small>Equipment code<br/>/Additional Equipment code</small>                                                                                                                                                                                                                                                                                                                              | IMI31                                          |
| 기본모델명<br><small>Basic Model Number</small>                                                                                                                                                                                                                                                                                                                                                                | FSP150-ABAN3                                   |
| 파생모델명<br><small>Series Model Number</small>                                                                                                                                                                                                                                                                                                                                                               | FSP150-ABBN3                                   |
| 등록번호<br><small>Registration No.</small>                                                                                                                                                                                                                                                                                                                                                                   | MSIP-REM-FSZ-FSP150-ABAN3                      |
| 제조사/제조국가<br><small>Manufacturer/Country of Origin</small>                                                                                                                                                                                                                                                                                                                                                 | Zhonghan Electronics (Shenzhen) Co., Ltd. / 중국 |
| 등록연월일<br><small>Date of Registration</small>                                                                                                                                                                                                                                                                                                                                                              | 2017-10-18                                     |
| 기타<br><small>Others</small>                                                                                                                                                                                                                                                                                                                                                                               |                                                |
| <div>위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.</div> <div>It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.</div> <div>2022년(Year) 04월(Month) 25일(Day)</div> <div>국립전파연구원장</div> <div>Director General of National Radio Research Agency</div> <div>※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.<br/>위반시 과태료 처분 및 등록이 취소될 수 있습니다.</div> |                                                |



4576-D8FF-C9F6-D65A

| 변경신고 처리결과 통보서                                                                                                                                                                                                                       |          |                                                                                                  |             |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------|-------------|--------------|
| 전자민원신청번호                                                                                                                                                                                                                            |          | 202217210000126761                                                                               | 접수일자        | 2022-04-25   |
| 대상기기                                                                                                                                                                                                                                | 상호 또는 성명 | Zhonghan Electronics (Shenzhen) Co., Ltd.                                                        | 적합성평가 분야    | 적합등록         |
|                                                                                                                                                                                                                                     | 기자재 명칭   | Switching Power Adapter                                                                          | 기본모델명       | FSP150-ABAN3 |
|                                                                                                                                                                                                                                     | 적합성평가 번호 | MSIP-REM-FSZ-FSP150-ABAN3                                                                        | 적합성평가 연 월 일 | 2022-04-25   |
| 기술기준                                                                                                                                                                                                                                |          | <div> Mainboard<br/> 1) 3BD02696 </div> <div> Mainboard<br/> 1) 3BD02696<br/> 2) 3BD03679 </div> |             |              |
| <p>「방송통신기자재등의 적합성평가에 관한 고시」 제16조에 따른 적합성평가 사항의 변경신고 건에 대하여 위와 같이 변경처리 되었음을 알려드립니다.</p> <p>2022년(Year) 04월(Month) 25일(Date)</p> <p>국립전파연구원장</p>  |          |                                                                                                  |             |              |

