



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호: HU10536-10004B
(Certificate No.)
제조업자명: International Precision Assemblies, Inc. Plant 2
(Manufacturer)
대표자명: Consuelo Pasiliao
(President)
제조공장의소재지: Lot 2, Blk 17. Phase IV Peza Rosario Cavite 4106 Philippines
(Factory Address)
제품명: 무정전전원장치 (UPS)
(Product)
기본모델명: BR1500GI
(Basic Model)
정격: i/p: 220-240 V~, 50/60 Hz, 10 A, o/p : 220-240 V~, 50/60 Hz,
(Rating) 1500 VA, 865 W
파생모델명 (Series Model):

적용기준: K 60950-1
(Standard) K62040-2

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.



2010 년 7 월 2 일
(Year) (Month) (Day)

한국전기전자시험연구원장
Korea Electric Testing Institute

※ 본 인증서는 「전기용품안전 관리법」에 따른 전기제품 안전성확인에 한정된 것이며, 그 밖의 다른 법들이 적용되는 제품의 경우에는 해당 법률에 따라 추가적으로 인증·허가 등을 받아야 합니다.

- 첨부서류
1. 안전관리부품 및 재질목록 (List of Critical Components)
 2. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)
 3. 전기용품안전인증의 변경현황 (Status of Certificate Revisions)

기술문서 Technical Document

page: 1 / 6

안전인증번호: HU10536-10004B
(Certificate No)

접수번호: 20100628 - 0033
(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)

구분(Section)	내 용 (Description)
용도 (Normal use)	U.P.S (Uninterruptible Power Supply)
내부구조 (Internal construction)	Consisting of rectified circuit, inverter, and charging circuit etc
외부구조 (External construction)	Providing with plastic enclosure having V-0 flammability and appliance Inlet, outlet
기타(Others)	Class I

1.2 전기용품의 표시: 전기용품안전 관리법 시행규칙 제15조(안전인증의 표시)에 따라 표시한다.

(Marking of KC Mark: Marking shall comply with enforcement rule Article 15 of the Electrical Appliances Safety Control Law)

1.3 등록모델 (Registered Models)

구 분 (Class)	모 델 명 및 정 격 (Model / Rating)	기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	BR1500GI i/p: 220-240 V~, 50/60 Hz, 10 A, o/p : 220-240 V~, 50/60 Hz, 1500 VA, 865 W	

기술 문서

Technical Document

page: 2 / 8

안전인증번호: HU10536-10004B
(Certificate No)

접수번호: 20100628 - 0033
(Receipt No)

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

부품명 (Components)	번호 (Part No)	특 성 (Technical Data)	제 조 자 (Manufacturer)	인증규격 (Certification)
PCB	-	Rated : V-1 min.	Various	UL
Outlet	-	Type : 742W-5P, rated : 250V~, 10A	Rong Feng	VDE
Inlet	-	Type : EMI-14-T5, rated : 250V~, 10A	Elcom	VDE
Enclosure	-	Type : PA-765A, rated : V-0	Chi Mei	UL
DC Fan	-	Type : JF0825 series, rated : 24Vdc, 0.08A, 43.11CFM	Kaimei	TUV
Circuit-Breaker	-	Type : RFMB, rated : 10A, 250Vac	Rong Feng	UL
Battery	-	Type : UP-RW1245, rated : 12Vdc, 9Ah	Panasonic	UL
Outlet	-(Alt.)	Type : R-302G5, rated : 250V~, 10A	Rich Bay	VDE
Inlet	-(Alt.)	Type : R-301SN, rated : 250V~, 10A	Rich Bay	VDE
Enclosure	-(Alt.)	Type : AF-312, AF-312T, AF-312A, AF-305HT, rated : V-0	LG	UL
Enclosure	-(Alt.)	Type : VH-0815+, rated : V-0	Cheil	UL
DC Fan	-(Alt.)	Type : DFB802524H, rated : 24Vdc, 0.11A, 37.98CFM	Young Lin	TUV
Battery	-(Alt.)	Type : CP1290, rated : 12Vdc, 9Ah	Shenzhen Center	UL
Battery	-(Alt.)	Type : EP1234W, rated : 12Vdc, 9Ah	Exide Industries	UL
Battery	-(Alt.)	Type : HR1234W, rated : 12Vdc, 9Ah	CSB Battery	UL
Battery	-(Alt.)	Type : HR9-12, rated : 12Vdc, 9Ah	B&B Battery	UL

기술 문서 Technical Document

page: 3 / 6

안전인증번호: HU10536-10004B
(Certificate No)

접수번호: 20100628 - 0033
(Receipt No)

부품명 (Components)	번호 (Part No)	특성 (Technical Data)	제조사 (Manufacturer)	인증규격 (Certification)
Battery	- (Alt.)	Type : WP1236W, rated : 12Vdc, 9Ah	Kung Long	UL
Transformer	AVR/Inverte	Type : 430-0681xxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	Shenzhen Jingquanhua Electronic Co., Ltd. (SJE)	-
Transformer	AVR/Inverte (Alt.)	Type : 430-0681xxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	CSC	-
Y-Capacitor	C105, C81, C84, C87 (Optional)	Type : TS, rated : 250Vac , 4700pF	Panasonic	VDE
Y-Capacitor	C105, C81, C84, C87 (Optional) (Alt.)	Type : KH, rated : 250Vac , 4700pF	Murata	VDE
X-Capacitor	C113, C141 (Optional)	Type : MPX, rated : 250Vac , 1uF	Camel	VDE
X-Capacitor	C113, C141 (Optional) (Alt.)	Type : MKP, rated : 250Vac , 1uF	Illinois	ENEC
X-Capacitor	C113, C141 (Optional) (Alt.)	Type : PCX2 335M, rated : 250Vac , 1uF	Pilkor	VDE
Bridge Capacitor	C165, C166, C69 (Optional)	Type : JN, rated : 250Vac , 3300pF	JYA NAY	VDE
Bridge Capacitor	C165, C166, C69 (Optional) (Alt.)	Type : AH, rated : 250Vac , 3300pF	Walsin	VDE
X-Capacitor	C86 (Optional)	Type : B81130 series, rated : 250Vac , 0.022uF	Epcos	VDE
X-Capacitor	C86 (Optional) (Alt.)	Type : MKP, rated : 250Vac , 0.022uF	Illinois	UL
X-Capacitor	C86 (Optional) (Alt.)	Type : PHE840M, rated : 250Vac , 0.022uF	Evax Rifa	VDE
X-Capacitor	C86 (Optional) (Alt.)	Type : MPX, rated : 250Vac , 0.022uF	Camel	VDE
X-Capacitor	C86 (Optional) (Alt.)	Type : PCX2 335M, rated : 250Vac , 0.022uF	Pilkor	VDE
Transformer	CT10	Type : 460-1006xxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	JTK	-

기술 문서

Technical Document

page: 4 / 6

안전인증번호: HU10536-10004B
(Certificate No)

접수번호: 20100628 - 0033
(Receipt No)

부품명 (Components)	번호 (Part No)	특성 (Technical Data)	제조사 (Manufacturer)	인증규격 (Certification)
Transformer	CT10 (Alt.)	Type : 460-1006xxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	SJE	-
Transformer	CT11	Type : 460-1003xxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	Cormex	-
Transformer	CT11 (Alt.)	Type : 460-1003xxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	SJE	-
Fuse	F15	Type : MST, rated : T1A, 250Vac	Schurter	VDE
Fuse	F15 (Alt.)	Type : 372, rated : T1A, 250Vac	Wickmann	VDE
Fuse	F15 (Alt.)	Type : SR-5, rated : T1A, 250Vac	Cooper Bussmann	VDE
Relay	RY13	Type : 68-24-2CE	O/E/N	VDE
Relay	RY13 (Alt.)	Type : 894H-2CH1-F-S	Song Chuan	VDE
Relay	RY14, RY12, RY10, RY11, RY15	Type : 793P-1C-C	Song Chuan	TUV
Relay	RY14, RY12, RY10, RY11, RY15 (Alt.)	Type : AZ755-1C-24D or AZ755-1C-24DE	American Zettler	TUV
Relay	RY14, RY12, RY10, RY11, RY15 (Alt.)	Type : HF14FW-024-ZT	Xiamen Hongfa	VDE
Relay	RY14, RY12, RY10, RY11, RY15 (Alt.)	Type : G2R-1-E	Omron	TUV
Transformer	T11	Type : 430-0701xxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	Click	-
Transformer	T11 (Alt.)	Type : 430-0701xxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	Cormex	-

기술 문서

Technical Document

page: 5 / 6

안전인증번호: HU10536-10004B
(Certificate No)

접수번호: 20100628 - 0033
(Receipt No)

부품명 (Components)	번호 (Part No)	특 성 (Technical Data)	제 조 자 (Manufacturer)	인증규격 (Certification)
Transformer	T11 (Alt.)	Type : 430-0701xxxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	SJE	-
Transformer	T2	Type : 430-0714xxxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	Cormex	-
Transformer	T2 (Alt.)	Type : 430-0714xxxxxxxx (x=0-9, A-Z, - or blank), rated : Class B	SJE	-
Photo Coupler	U10, U11, U12, U13, U14, U15, U16	Type : H11A817B series	Fairchild	VDE
Photo Coupler	U10, U11, U12, U13, U14, U15, U16 (Alt.)	Type : EL816S	Everlight	VDE
Photo Coupler	U10, U11, U12, U13, U14, U15, U16 (Alt.)	Type : HCPL-817	Avago	VDE
Photo Coupler	U10, U11, U12, U13, U14, U15, U16 (Alt.)	Type : ISP817X	ISOCOM	VDE
Photo Coupler	U10, U11, U12, U13, U14, U15, U16 (Alt.)	Type : LTV817 series	Liteon	VDE
Photo Coupler	U10, U11, U12, U13, U14, U15, U16 (Alt.)	Type : SFH6156-..	Vishay	VDE

기술문서 Technical Document

page: 6 / 6

안전인증번호: HU10536-10004B
(Certificate No)

접수번호: 20100628 - 0033
(Receipt No)

3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
2010/06/21	기본모델(Basic Model)
2010/07/02	부품(Component Alternated/Modified)

4. 기타(Carefully Informed Note)

- 1) 안전관리부품 및 재질목록에 기재된 사항은 전기적인 안전에 직접적인 영향을 주는 부분이므로 내용을 변경 또는 복수등재를 원하는 경우 안전인증변경신청을 하여야 합니다. 안전인증변경신청을 하지 않고 제조자가 임의로 변경하는 경우에는 전기용품안전 관리법 제8조제1항제2호에 의거 안전인증이 취소될 수 있습니다.

(Certificate holder should apply for the revision of certificate issued from Issuing Certification Body if registered critical components would be changed, modified or alternated. Should the contents of Certificate are altered without Safety Certification Modification Application by Certificate holder, Safety Certification(KC Mark) may be withdrawn under Section 2, Paragraph 1, Article 8 of the Electrical Appliances Safety Control Law)

- 2) 정기검사(시료채취포함)를 거부, 방해 또는 기피하는 경우에는 전기용품안전 관리법 제8조제1항제4호에 의거 안전인증이 취소될 수 있습니다.

(If Annual 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 under Section 4, Paragraph 1, Article 8 of the Electrical Appliances Safety Control Law)

- 3) 공장주소(전화번호포함), 대표자, 상호 및 부품변경 등 전기용품 안전인증서의 내용이 변경되었을 때 제조자가 안전인증변경신청을 하지 않을 경우에는 전기용품안전 관리법 제8조제1항제3호에 의거 안전인증이 중지 또는 취소될 수 있습니다.

(If Safety Certification Modification Application by Certificate holder should not has been made to Issuing Certification Body, when Factory Address, including telephone/facsimile no., Manufacturer Name, Registered Critical Components, etc would be changed, Safety Certification(KC Mark) may be suspended or withdrawn under Section 3, Paragraph 1, Article 8 of the Electrical Appliances Safety Control Law)

- 4) 조건부 인증사항 (Conditional certification Items):