

접수번호(Order No.) : EKC2016-6516



안전확인신고 증명서 Confirmation Letter of Declaration

신 고 번 호 : YU10485-16002 유효기간 만료일 : 2026년 09월 13일
(Application No.) (Validity Period) year month day

신 고 업 체 명 : ASTEC POWER PHILIPPINES INC
(Applicant)

대 표 자 명 : HG Gan
(President)

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

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

기 본 모 델 명 : DS500SDC-3
(Basic Model)

제 품 정 격 : -48 to -60 Vd.c., 15 A (DC Output: 12 V/41.6 A, 12 Vsb/3.0 A, Totally:
(Rating) 500 W)

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

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

본 확인신고는 제조국명 : 필리핀
제조업체명 : ASTEC POWER PHILIPPINES INC의 제품에만 해당함

『전기용품안전관리법 시행규칙』 제19조 제3항에 따라 위의 전기용품에 대하여 안전확인신고 증명서를 발급합니다.
We issue this Confirmation Letter of Declaration of the Safety Confirmation for the above electrical appliance
in accordance with Article 19(3) of the Enforcement Rule of the Electrical Appliances Safety Control Act.

2016년 09월 14일
year month day



한국화학융합시험연구원
KOREA TESTING & RESEARCH INSTITUTE



※ 이 신고증명서는 『전기용품안전 관리법』 에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

1. 안전관리부품 및 재질목록(List of Critical components)
2. 기본모델·파생모델의 내용(General Descriptions of Certified Products)

첨부서류
(Annex)



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[붙임(Attachment)]

DS500SDC-3-001, DS500SDC-3-401, DS500SDC-3-402, DS500SDC-3-403, DS500
SDC-3-404, DS500SDC-3-405, DS500SDC-3-406

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[붙임 1 : 안전관리부품 목록]

[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))
Input connector	Molex Inc Aepd (E48521)	4219XX	85 A, 600 V, 130 deg C.	-
Input connector - Alternate	Dinkle Enterprise Co Ltd (E102914)	DT-66-C11W	40 A, 300 V, 130 deg C.	-
Y-capacitors (C90-C93, C96-C99)	Walsin	1206B333K631C T	Passed in 1 400 Vd.c. Hi-Pot (tested separately). Min. 33 nF Min. 630 Vd.c.	-
Y-capacitors (C90-C93, C96-C99 - Alternate)	TDK	C3216X7R2J333 K	Passed in 1 400 Vd.c. Hi-Pot (tested separately). Min. 33 nF Min. 630 Vd.c.	-
Discharge resistor (R19)	Interchangeable	Interchangeable	47 k Ω , 1 W	-
Fuse (F2)	Littelfuse Inc (E71611)	TLS030	30 A, 170 Vd.c.	-
Input chokes (L6, L7)	Astec/ Emerson/Artesyn	85266024670	130 $^{\circ}$ C	-
Y-capacitors (C39, C40, C108, C110)	SYFER	8131M5000224K XC42	Max. 0.22 μ F, Min. 500 Vd.c. Passed in 1 400 Vd.c. Hi-Pot (tested separately).	-
Y-capacitors (C39, C40, C108, C110) - Alternate	Murata	RDER72J224K5 B1C13B	Max. 0.22 μ F, Min. 630 Vd.c. Passed in 1 400 Vd.c. Hi-Pot (tested separately).	-
Input chokes (L1, L2)	Astec/ Emerson/Artesyn	85266024560	130 $^{\circ}$ C	-
Input FETs (Q27, Q28)	Interchangeable	Interchangeable	Min. 80 A, Min. 100 V	-
Bulk capacitor (C95)	Interchangeable	Interchangeable	Min. 120 μ F, Min. 420 V	-
Input choke (T1)	Astec/ Emerson/Artesyn	85266024550	130 $^{\circ}$ C	-
Input choke (L101)	Astec/ Emerson/Artesyn	85266022380	130 $^{\circ}$ C	-
Gate drive transformers (T101, T102)	Astec/ Emerson/Artesyn	85266023920	90 $^{\circ}$ C	-

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부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Gate drive transformer' s TIW	Totoku Electric Co Ltd (E166483)	TIW-3, TIW-3XSB	34 AWG, 155 °C	-
Gate drive transformer' s TIW - Alternate	Rubadue Wire Co Inc (E206198)	T34A01TXXX-1.5, T34A01TXXX-1.5-SB	34 AWG, 155 °C	-
Gate drive transformer' s TIW - Alternate	Rubadue Wire Co Inc (E206198)	T34A01TXXX-2, T34A01TXXX-2-SB	34 AWG, 155 °C	-
Gate drive transformer' s TIW - Alternate	Draka Cable Wuppertal GMBH (E211469)	8Y13	34 AWG, 180 °C	-
Gate drive transformer' s TIW - Alternate	Hoi Luen Electrical Mfr Co Ltd (E257525)	THL-F, THL-F-SB	34 AWG, 155 °C	-
Gate drive transformer' s TIW - Alternate	New England Wire Technologies Corp (E205791)	WYYTYYYE (ETFE)	34 AWG, 155 °C	-
Gate drive transformer' s TIW - Alternate	Furukawa Electric Co Ltd (E206440)	TEX-E	34 AWG, 130 °C	-
Gate drive transformer' s Holder	E I Dupont De Nemours & Co Inc (E41938)	Rynite FR530	Min. 0.35 mm. thick, V-0	-
Gate drive transformer' s Holder - Alternate	E I Dupont De Nemours & Co Inc (E41938)	Zytel FR50	Min. 0.35 mm. thick, V-0	-
Current transformer (CT1)	Astec/ Emerson/Artesyn	85266022360	Class F (155-10C) (E94225)	-
Current transformer' s TIW	Totoku Electric Co Ltd (E166483)	TIW-3, TIW-3XSB	25 AWG, 155 °C	-
Current transformer' s TIW - Alternate	Rubadue Wire Co Inc (E206198)	T25A01TXXX-1.5, T25A01TXXX-1.5-SB	25 AWG, 155 °C	-
Current transformer' s TIW - Alternate	Rubadue Wire Co Inc (E206198)	T25A01TXXX-2, T25A01TXXX-2-SB	25 AWG, 155 °C	-
Current transformer' s TIW - Alternate	Draka Cable Wuppertal GMBH	8Y13	25 AWG, 155 °C	-

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[붙임 1 : 안전관리부품 목록]

[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))
	(E211469)			
Current transformer' s TIW - Alternate	Hoi Luen Electrical Mfr Co Ltd (E257525)	THL-F, THL-F-SB	25 AWG, 155 °C	-
Current transformer' s TIW - Alternate	New England Wire Technologies Corp (E205791)	WYYTYYYE (ETFE)	25 AWG, 155 °C	-
Current transformer' s Holder	E I Dupont De Nemours & Co Inc (E41938)	Rynite FR530	Min. 0.35 mm. thick, V-0	-
Current transformer' s Holder - Alternate	E I Dupont De Nemours & Co Inc (E41938)	Zytel FR50	Min. 0.35 mm. thick, V-0	-
Power FETs (Q11, Q12, Q53, Q54) - For model DS500SDC-3-XXX.	Interchangeable	Interchangeable	Min. 16A, Min. 600 V	-
Power transformers (T111, T112)	Astec/ Emerson/Artesyn	85266022330	Class F (155-10C) (E94225)	-
Power transformer' s TIW	Totoku Electric Co Ltd (E166483)	TIW-3, TIW-3XSB	29 AWG, 155 °C	-
Power transformer' s TIW - Alternate	Rubadue Wire Co Inc (E206198)	T29A01TXXX-1.5, T29A01TXXX-1.5-SB	29 AWG, 155 °C	-
Power transformer' s TIW - Alternate	Rubadue Wire Co Inc (E206198)	T29A01TXXX-2, T29A01TXXX-2-SB	29 AWG, 155 °C	-
Power transformer' s TIW - Alternate	Draka Cable Wuppertal GMBH (E211469)	8Y13	29 AWG, 180 °C	-
Power transformer' s TIW - Alternate	Hoi Luen Electrical Mfr Co Ltd (E257525)	THL-F, THL-F-SB	29 AWG, 155 °C	-
Power transformer' s TIW - Alternate	New England Wire Technologies Corp (E205791)	WYYTYYYE (ETFE)	29 AWG, 155 °C	-
Power transformer' s Bobbin	E I Dupont De Nemours & Co Inc (E41938)	Rynite FR530	Min. 0.35 mm. thick, V-0	-
Power	E I Dupont De	Zytel FR50	Min. 0.35 mm.	-

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[붙임 1 : 안전관리부품 목록]

[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' s Bobbin - Alternate	Nemours & Co Inc (E41938)		thick, V-0	
Auxiliary FET (Q50)	Interchangeable	Interchangeable	Min. 5.1 A, Min. 900 V	-
Auxiliary transformer (T110)	Astec / Emerson/Artesyn	85266025850	Class F (155-10C) (E94225)	-
Auxiliary transformer' s TIW	Totoku Electric Co Ltd (E166483)	TIW-3, TIW-3XSB	30 AWG, 155 °C	-
Auxiliary transformer' s TIW - Alternate	Rubadue Wire Co Inc (E206198)	T30A01TXXX-1.5, T30A01TXXX-1.5-SB	30 AWG, 155 °C	-
Auxiliary transformer' s TIW - Alternate	Draka Cable Wuppertal GMBH (E211469)	8Y13	30 AWG, 180 °C	-
Auxiliary transformer' s TIW - Alternate	Hoi Luen Electrical Mfr Co Ltd (E257525)	THL-F, THL-F-SB	30 AWG, 155 °C	-
Auxiliary transformer' s TIW - Alternate	New England Wire Technologies Corp (E205791)	WYYTYYYE (ETFE)	30 AWG, 155 °C	-
Optocouplers (IC10, IC52, IC403, IC404, IC406)	Vishay Infrared Components Inc (E52744)	System U (SFH690AT)	Rated 3 125 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Vishay Infrared Components Inc (E52744)	Systems H or J (SFH6156)	Rated 4 420 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Lite-on Technology Corp (E113898)	LTV-827, LTV827	Rated 5 000 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Lite-on Technology Corp (E113898)	LTV-817, LTV817	Rated 5 000 V~ isolation voltage	-
Optocouplers (IC10, IC52,	Renesas Electronics	PS2561AL-1	Rated 5 000 V~ isolation voltage	-

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[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))
IC403, IC404, IC406) - Alternate	Corporation (E72422)			
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Renesas Electronics Corporation (E72422)	PS2561BL-1	Rated 5 000 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Avago Technologies Pte Ltd (E55361)	ACPL-827	Rated 5 000 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Cosmo Electronics Corp (E169586)	KP1020	Rated 5 000 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Cosmo Electronics Corp (E169586)	KPC357NT	Rated 3 750 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Avago Technologies Pte Ltd (E55361)	HCPL-817	Rated 5 000 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Fairchild Semiconductor Corp (E90700)	FODM121B	Rated 3 750 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Lite-on Technology Corp (E113898)	LTV-356T, LTV356T	Rated 3 750 V~ isolation voltage	-
Optocouplers (IC10, IC52, IC403, IC404, IC406) - Alternate	Cosmo Electronics Corp (E169586)	K1010	Rated 5 000 V~ isolation voltage	-
Input choke (T702)	Astec / Emerson/Artesyn	85266025230	130 °C	-

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[붙임 1 : 안전관리부품 목록]

[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))
Choke (L601)	Astec / Emerson/Artesyn	85266023950	130 ℃	-
Fan (for normal and reverse airflow conditions)	Delta Electronics Inc (E132003)	FFB0412UHN	12 Vd.c., 1.01 A	-
Fan (for normal airflow condition only) - Alternate	Minebea Motor Mfg Corp (E89936)	1611FT-D4W-B86	12 Vd.c., 1.2 A	-
Fan (for normal and reverse airflow conditions) - Alternate	Sunonwealth Electric Machine Industry Co Ltd (E77551)	PF40281BX	12 Vd.c., 0.9 A	-
Fan (for normal and reverse airflow conditions) - Alternate	Asia Vital Components Co Ltd (E158191)	DBTD0428B2F	12 Vd.c., 1.1 A	-
Heatsink (HTSK3, HTSK6)	Interchangeable	Interchangeable	Aluminum	-
PCBs (Main and Primary Control)	Interchangeable	Interchangeable	V-0, 130 ℃	-
PCB (Auxiliary Transformer)	Refer to Section General	Refer to Section General	V-0, 130 ℃	-
Handle	Sabic Innovative Plastics B V (E45329)	Lexan 945	U- shape. V-0. Overall dimension of minimum 54.12 by 30 mm.	-
Handle - Alternate	Sabic Innovative Plastics US L L C (E121562)	Lexan 945	U- shape. V-0. Overall dimension of minimum 54.12 by 30 mm.	-
Handle - Alternate	Sabic Innovative Plastics Japan L L C (E207780)	Lexan 945	U- shape. V-0. Overall dimension of minimum 54.12 by 30 mm.	-
Base enclosure	Interchangeable	Interchangeable	Steel, U-shaped.	-
Cover enclosure	Interchangeable	Interchangeable	Steel, L- shaped.	-
Front panel	Interchangeable	Interchangeable	Steel, Shape as shown.	-

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부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Base insulator	Sabic Innovative Plastics US L L C (E121562)	Valox FR1	Min. VTM-0. Approximate overall dimensions of min. 192 by 167.4 mm. Min. 0.13 mm. thick.	-
Cover insulator	Sabic Innovative Plastics US L L C (E121562)	Valox FR1	Min. VTM-0. Approximate overall dimensions of min. 184 by 98.51 mm. Min. 0.13 mm. thick.	-
Insulator between L601 and SK403	Sabic Innovative Plastics US L L C (E121562)	Valox FR1	Min. VTM-0. Approximate overall dimensions of min. 15.5 by 16 mm. Min. 0.13 mm. thick.	-
Insulator on C113	Sabic Innovative Plastics US L L C (E121562)	Valox FR1	Min. VTM-0. Approximate overall dimensions of min. 51 by 22.9 mm. Min. 0.13 mm. thick.	-
Insulator between HTSK7 and T110 core	Sabic Innovative Plastics US L L C (E121562)	Valox FR1	Min. VTM-0. Approximate overall dimensions of min. 30 by 20.4 mm. Min. 0.13 mm. thick.	-

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[붙임 1 : 안전관리부품 목록]

[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))
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※ 주의사항(Attention)

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장 검사시 확인 및 관리하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 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 전기용품안전관리법 제8조제1항의 규정에 의한 안전인증 취소사유가 됨을 유의하시기 바랍니다.

(The safety certification will be cancelled under the Electrical Appliance Safety Control Law, Clause 1 of Article 8 if the contents of the certification are altered without prior authorization.)

3. 전기용품안전기준 부적합시 처리기준
(Handling criteria for non-conforming electrical appliance)

- 1) 새로 추가된 품목 및 시험항목 등에 대해서는 기존의 유사한 품목군을 적용한다
(Added in new items and test items for conventional track shall be subject to existing similar items)

- 2) 안전인증 또는 자율안전확인 신고를 한 제품과 다르게 안전인증기관의 안전성 검증절차를 거치지 않고 임의로 부품 누락, 추가 등 일부 부품을 변경한 경우에는 최종결함을 적용 한다.
(In case of the products without the validation process by a safety certification body and randomly missing paths such as adding and changing some components, unlike a safety certificate or a registration for the self-regulatory safety confirmation and other related regulations shall apply most serious level of defect)

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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)
DS500SDC-3-001	o Different model name from basic model	-
DS500SDC-3-401	o Different model name from basic model	-
DS500SDC-3-402	o Different model name from basic model	-
DS500SDC-3-403	o Different model name from basic model	-
DS500SDC-3-404	o Different model name from basic model	-
DS500SDC-3-405	o Different model name from basic model	-
DS500SDC-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]

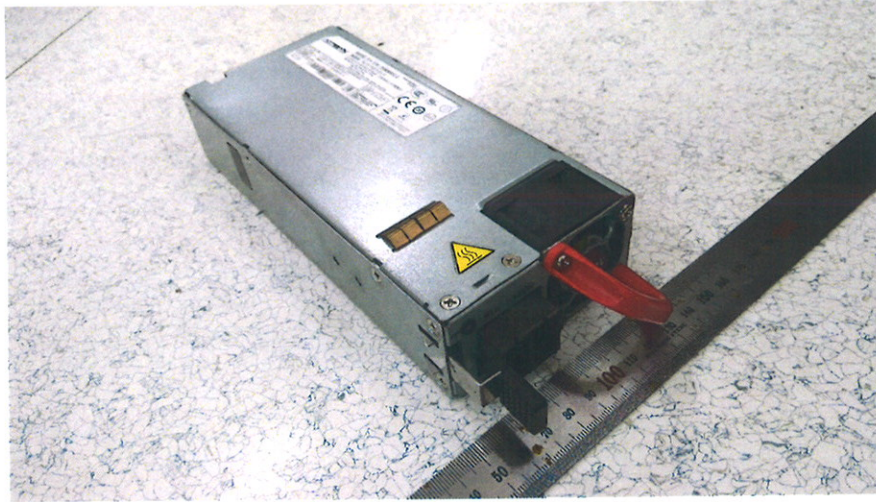
제품 및 시험특기사항
(Features and Specifications)

- o Characteristics
 - DC Power supply for computer
- o Specifications
 - Rated voltage : -48 to -60 Vd.c., 15 A
(DC Output: 12 V/41.6 A, 12 Vsb/3.0 A, Totally: 500 W)
 - Rating time : Continuous
 - Protection grade against electric shock : Class I appliance
 - Mobile devices : Built in type
 - IP grade : IPX0
 - Appliance weight : 1.05 Kg

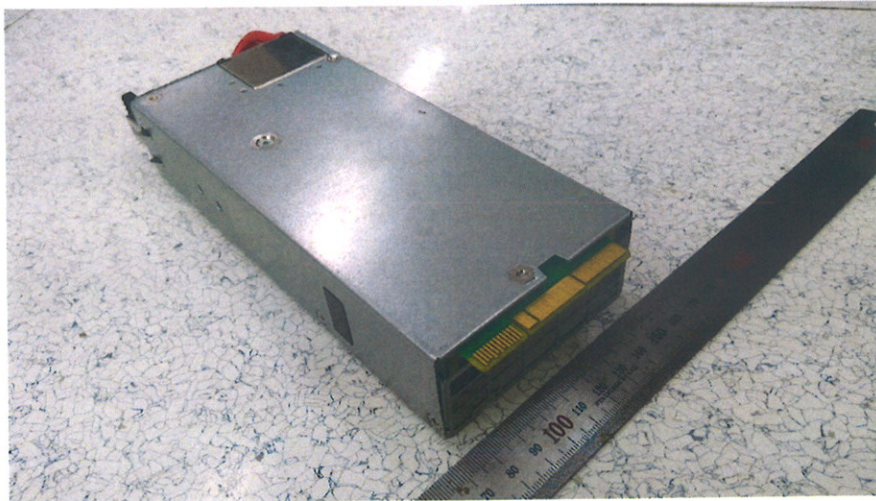
※ 본 제품의 시험내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하여 주시기 바랍니다.
 시험담당자 연락처 : Tel : 02-2164-1426 Fax : 02-2634-1007
 (If you have any questions on product testing contents, please contact the
 following : Tel : 82-2-2164-1426 Fax : 82-2-2634-1007)

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〈사진1〉



〈사진2〉



〈사진3〉

