


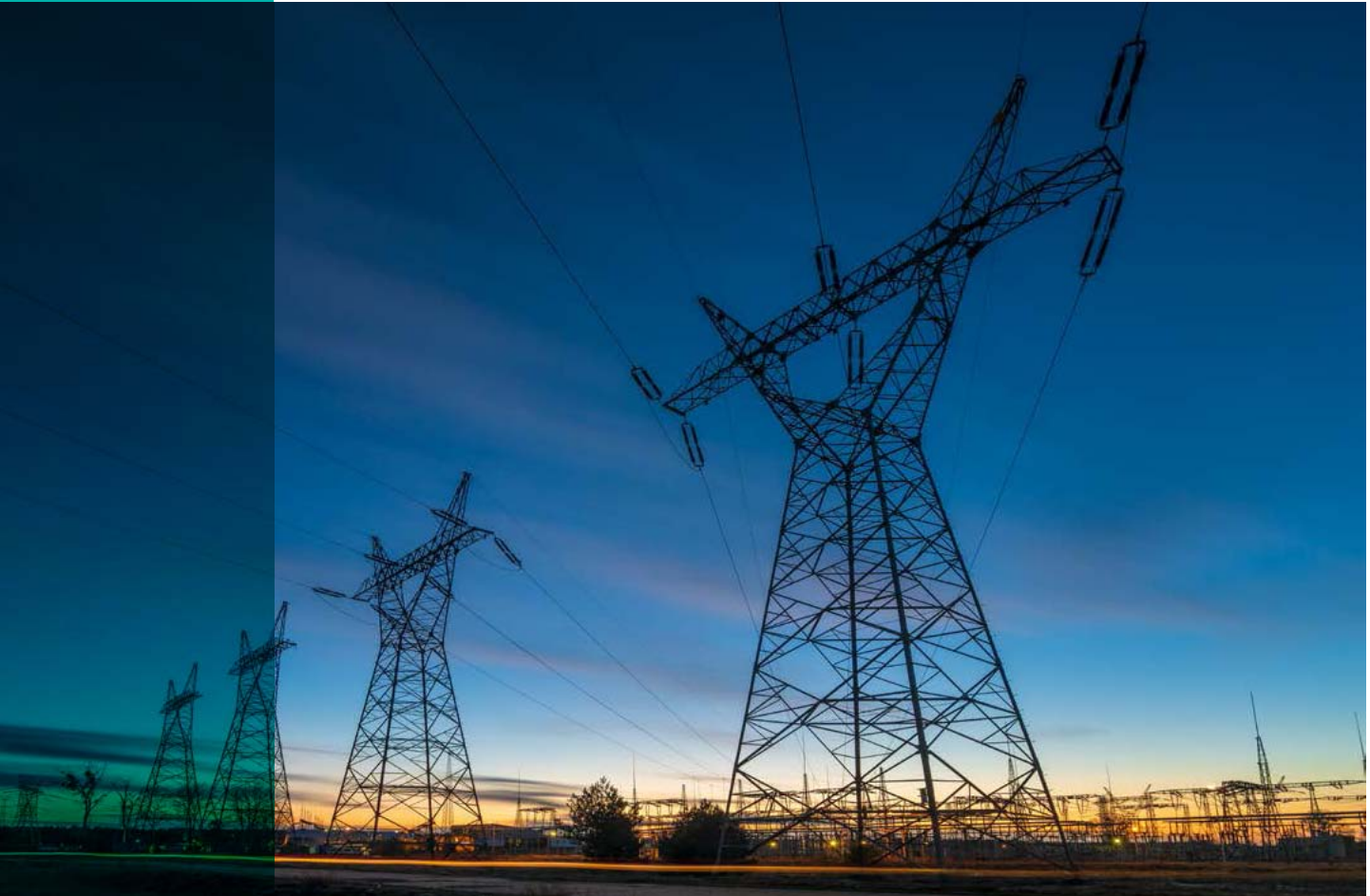
Tech-centered happy company

# SHINYOUNG ETi

기술중심의 행복기업 신영



Develops Into  
Innovation and  
challenge



**(주)신영이티아이는 기술, 품질, 사람을 중시합니다.  
고객 감동의 기업으로 성장하도록 노력합니다.**

최근 급변하는 성장기술의 변화 속에서 기업은 물론 개인과 국가까지 새로운 도전 혁신이 요구되고 있습니다.

(주)신영이티아이는 이러한 변화의 흐름을 주도하며 서지보호기(SPD), 차단기 등을 선도하는 기업이 되기 위해 노력하고 있습니다.

그리고 다년간 축적된 전문적인 기술을 바탕으로 “낙뢰피해는 반드시 예방할 수 있다”는 마음가짐으로 새로운 기술개발에 매진하고 항상 끊임없이 연구하고 있습니다.

항상 최고의 품질과 월등한 기술력을 갖춘 기업, 고객중심의 미래지향적인 기업, 고객감동에 모든 초점을 맞추고 고객과 늘 함께 존재하며 함께 성장하는 기업으로 만들어 나갈 것을 약속드립니다.

감사합니다.

- 주식회사 신영이티아이 임직원 일동 -

Shinyoung ETi Co., Ltd. prioritizes technology, quality, and people. We strive to grow into a company that touches customers' heart.

In the midst of the rapidly changing growth technology, new challenges and innovations are being required from companies, individuals and nations. Shinyoung ETi Co., Ltd. is leading the flow of change and is trying to be a leading company for surge protective Device (SPD) and circuit breaker. Based on the accumulated expertise over many years, we are striving to develop new technologies and research continuously with the mind that “the lightning damage can certainly be prevented”. We promise to make a company that always has the best quality and superior technology, a future-oriented company centered on customers, and a company that always exists and grows with customers with all the focus on customer satisfaction.

Thank you.

-From all employees of Shinyoung ETi Co., Ltd.-



## I 회사연혁 The history of our company

- 2019.** 06. KT 5G 분전함 서지보호기 등록 및 납품 (KT커머스 등록)  
Registered and delivered KT 5G distribution box surge protective Device (registered as KT Commerce)
- 02. 서지보호기 In 20kA 이하 KS인증 취득 (추가 5품목)  
Obtained KS certification for surge protective Device In 20kA or below (additional 5 items)
- 2018.** 03. Box-Type 20품목 개발완료 및 출시  
Completed development and release of 20 box-type items
- 2017.** 12. 서지보호기 In 20kA, Imax 40kA-4P용 KS인증 취득  
Acquired KS certification for surge protective Device IN 20kA Imax 40kA-4P
- 10. (주)이티아이 → (주)신영이티아이 변경  
Changed ETi Co., Ltd. → Shinyoung Eti Co., Ltd.
- 05. 서지보호기 40kA용 CE인증 취득  
Obtained CE Certification for surge protective Device 40kA
- 03. 연구개발전담부서 설립  
Established R & D Department
- 2016.** 03. 공장 신축 및 이전  
Factory construction and relocation
- 01. 동아전기공업(주) - 서지보호기 ODM계약체결  
Donga Electric Industry Co., Ltd. - ODM contract conclusion for surge protective Device
- 2015.** 10. 가정용(소형) 서지보호기 개발  
Developed a home (small) surge protective Device
- 10. 서지보호기 관련 특허 취득(제 10-2015-0039056)  
Obtained patent for surge protective Device (No. 10-2015-0039056)
- 08. 서지보호기 상용화  
Commercialization of surge protective Device
- 07. (주)대륙 - 서지보호기 ODM 계약체결  
Daeryuk Co., Ltd. - ODM contract conclusion for surge protective Device
- 05. 서지보호기 개발  
Developed surge protective Device
- 04. (주)이티아이 (법인전환)  
ETi Co., Ltd. (corporation change)

## I 인증 특허 Authentication Letters patent



Surge Protective Device

**서지보호기란?**

**What is a surge protective Device?**

- 서지보호기(Surge Protective Device)란 낙뢰 충격 전압으로부터 전력 설비의 손상을 방지하기 위한 기기로 낮은 전압의 전기 및 전자 장치 또는 회로에서의 서지 전압을 제한하기 위해 하나 이상의 피뢰기와 장비 부품으로 구성된 보호 장치입니다. 전력계통의 전원선, 통신선, 신호선 등의 도체를 통하여 발생, 침입되는 과도 이상 전압을 Surge라 하며 Surge의 침입으로 인하여 전자 기기, 전자 부품의 파손, 소프트웨어의 오동작 등 많은 피해가 초래되고 있으며 이러한 장비를 보호하기 위하여 서지보호기(Surge Protective Device : SPD)가 필요합니다.
- A surge protective Device is a device that prevents damage to power equipment from lightning shock voltage. It is a protection device composed of one or more arresters and equipment parts to limit the surge voltage in low voltage electrical and electronic devices or circuits. The transient abnormal voltage generated and intruded through conductors such as power line, communication line, and signal line of power system is called a surge, and a surge protective device (SPD) is required to protect these devices from the intrusion of a surge, which causes a lot of damage, such as damage to electronic devices and components, software malfunction, etc.

**주요납품처** Primary vendor

Surge Protective Device



**시공사례** Construction examples

Surge Protective Device

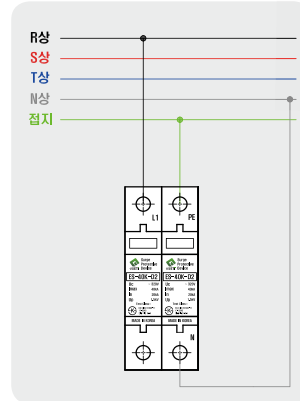
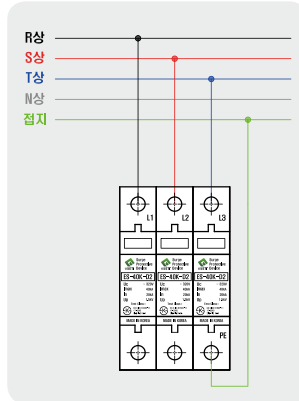
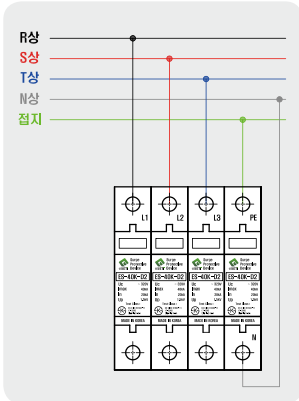




서지보호기

Surge Protective Device  
Power supply SPD-KS certification

전원용 SPD-KS 인증 



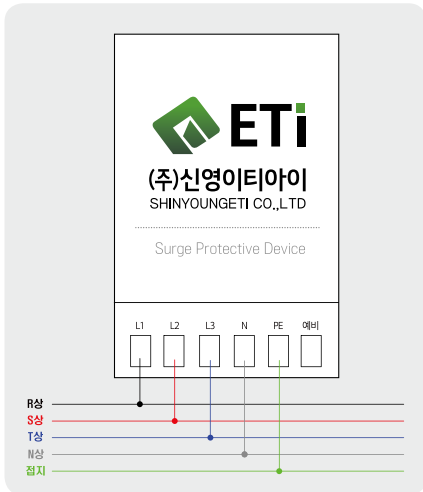
Din-Rail type

형명 model name	ES-20K-D2	ES-40K-D2	
등급 class	Class II	Class II	
극수 number of poles	[Pole] 2·3·4 Pole	2·3·4 Pole	
정격전압, Un AC rated voltage	[V] 220~380V	220~380V	
최대연속사용전압, Uc AC maximum continuous operating voltage	[V] AC 320V	AC 320V	
전압보호레벨, Up voltage protection level	[kV] 1.5kV/Peak	1.5kV/Peak	
최대방전전류, I <sub>max</sub> (8/20μs) maximum discharge current	[kA, per mode] 20kA	40kA	
공칭방전전류, I <sub>n</sub> (8/20μs) nominal discharge current	[kA, per mode] 10kA	20kA	
반응시간 reaction time	[ns]	< 25ns	
누설전류 residual current	[mA]	1mA 이내 within 1mA	
온/습도 범위 temperature / humidity range	[°C] [%]	-40~70°C / 5~95%	
사용주파수 operating frequency	[Hz]	50 / 60Hz	
부착방식 mounting method		Din-Rail 35mm	
동작상태 표시창 operating status display window		정상동작 : 녹색, 비정상/사고 후 : 적색 Normal operation: green, abnormal / after accident: red	
보호등급 protection class		IP20	
접지방식 grounding method		당 제품은 Common Bar로 연결되어 1극에서만 접지선을 체결하면 됨 This product is connected to the common bar, so only one pole needs to be grounded	
설치장소 installation location	옥내 indoor	옥내 outdoor	
외형치수 external dimension	1P 2W + G	36(W) × 92(H) × 65.5(D)	36(W) × 92(H) × 65.5(D)
	3P 3W + G	54(W) × 92(H) × 65.5(D)	54(W) × 92(H) × 65.5(D)
	3P 4W + G	72(W) × 92(H) × 65.5(D)	72(W) × 92(H) × 65.5(D)
시험 및 적용규격 test and application standard	KS C IEC 61643-11		

Surge Protective Device  
Power supply SPD-KS certification

서지보호기

전원용 SPD-KS 인증 



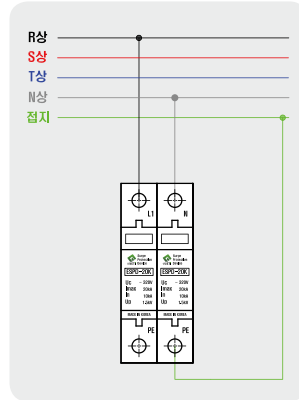
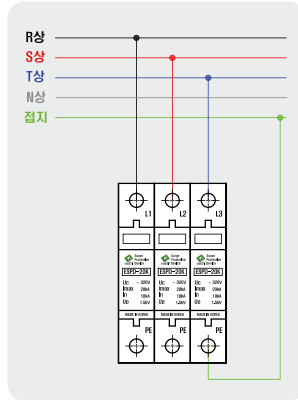
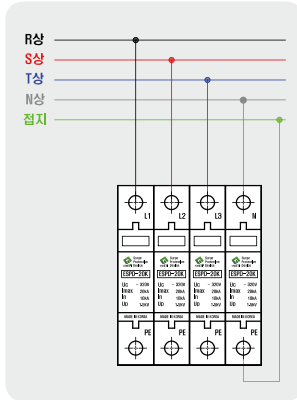
## BOX-type

형명 model name	ES-40B	ES-40BC [카운터 형]
등급 class	Class II	Class II
극수 number of poles	[Pole] 4 Pole	4 Pole
정격전압, Un AC rated voltage	[V] 380V	380V
최대연속사용전압, Uc AC maximum continuous operating voltage	[V] AC 320V	AC 320V
전압보호레벨, Up voltage protection level	[kV] 1.5kV/Peak	1.5kV/Peak
최대방전전류, I <sub>max</sub> (8/20 $\mu$ s) maximum discharge current	[kA, per mode] 40kA	40kA
공칭방전전류, I <sub>n</sub> (8/20 $\mu$ s) nominal discharge current	[kA, per mode] 20kA	20kA
반응시간 reaction time	[ns] < 25ns	
누설전류 residual current	[mA] 1mA 이내	
온/습도 범위 temperature / humidity range	[°C] [%] -40~70°C / 5~95%	
사용주파수 operating frequency	[Hz] 50 / 60Hz	
부착방식 mounting method	Screw	
동작상태 표시창 operating status display window	정상동작 : 녹색, 비정상/사고 후 : 적색 Normal operation: green, abnormal / after accident: red	
보호등급 protection class	IP20	
접속방식 grounding method	단자대접속 terminal block connection	
설치장소 installation location	옥내 indoor	옥내 outdoor
외형치수 external dimension	3P 4W + G 99(W) × 180(H) × 76.5(D)	99(W) × 180(H) × 100(D)
시험 및 적용규격 test and application standard	KS C IEC 61643-11	

서지보호기

Surge Protective Device  
Power supply SPD-CE certification

전원용 SPD-CE 인증 



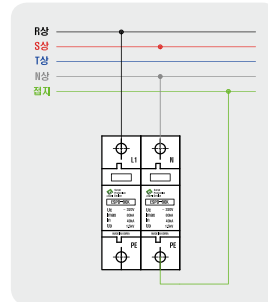
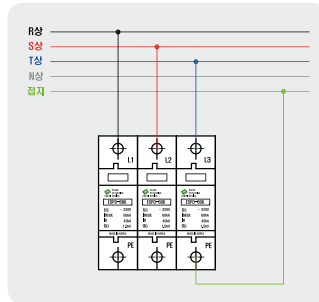
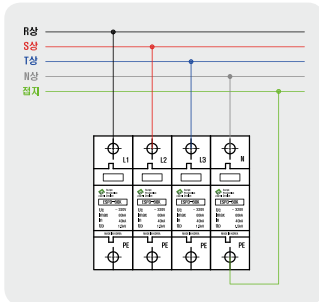
## Din-Rail type

형명 model name		ESPD-20K	ESPD-40K
등급 class		Class II	Class II
극수 number of poles	[Pole]	1·2·3·4 Pole	1·2·3·4 Pole
정격전압, $U_n$ AC rated voltage	[V]	220~380V	220~380V
최대연속사용전압, $U_c$ AC maximum continuous operating voltage	[V]	AC 320V	AC 320V
전압보호레벨, $U_p$ voltage protection level	[kV]	1.5kV/Peak	1.5kV/Peak
최대방전전류, $I_{max}$ (8/20 $\mu$ s) maximum discharge current	[kA, per mode]	20kA	40kA
공칭방전전류, $I_n$ (8/20 $\mu$ s) nominal discharge current	[kA, per mode]	10kA	20kA
반응시간 reaction time	[ns]	< 25ns	
누설전류 residual current	[mA]	1mA 이내 within 1mA	
온/습도 범위 temperature / humidity range	[°C] [%]	-40~70°C / 5~95%	
사용주파수 operating frequency	[Hz]	50 / 60Hz	
부착방식 mounting method		Din-Rail 35mm	
동작상태 표시창 operating status display window		정상동작 : 녹색, 비정상/사고 후 : 적색 Normal operation: green, abnormal / after accident: red	
보호등급 protection class		IP20	
접지방식 grounding method		당 제품은 Common Bar로 연결되어 1극에서만 접지선을 체결하면 됨 This product is connected to the common bar, so only one pole needs to be grounded	
설치장소 installation location		옥내 indoor	옥내 outdoor
외형치수 external dimension	1P 2W + G	36(W) × 92(H) × 65.5(D)	36(W) × 92(H) × 65.5(D)
	3P 3W + G	54(W) × 92(H) × 65.5(D)	54(W) × 92(H) × 65.5(D)
	3P 4W + G	72(W) × 92(H) × 65.5(D)	72(W) × 92(H) × 65.5(D)
시험 및 적용규격 test and application standard		KS C IEC 61643-11	

서지보호기

전원용 SPD

Surge Protective Device  
Power supply SPD



## Din-Rail type

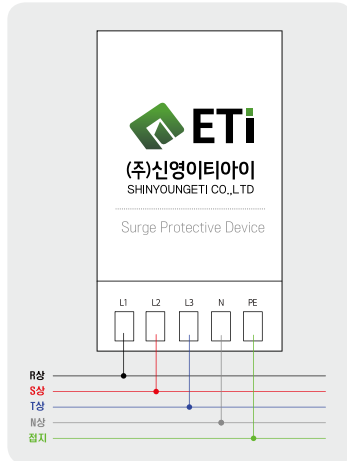
형명 model name		ESPD-80K	ESPD-120K
등급 class		Class II	Class II
극수 number of poles	[Pole]	1·2·3·4 Pole	1·2·3·4 Pole
정격전압, Un AC rated voltage	[V]	220~380V	220~380V
최대연속사용전압, Uc AC maximum continuous operating voltage	[V]	AC 320V	AC 320V
전압보호레벨, Up voltage protection level	[kV]	1.5kV/Peak	2.0kV/Peak
최대방전전류, I <sub>max</sub> (8/20μs) maximum discharge current	[kA, per mode]	80kA	120kA
공칭방전전류, I <sub>n</sub> (8/20μs) nominal discharge current	[kA, per mode]	40kA	60kA
반응시간 reaction time	[ns]	< 25ns	
누설전류 residual current	[mA]	1mA 이내 within 1mA	
온/습도 범위 temperature / humidity range	[°C] [%]	-40~70°C / 5~95%	
사용주파수 operating frequency	[Hz]	50 / 60Hz	
부착방식 mounting method		Din-Rail 35mm	
동작상태 표시창 operating status display window		정상동작 : 녹색, 비정상/사고 후 : 적색 Normal operation: green, abnormal / after accident: red	
보호등급 protection class		IP20	
접지방식 grounding method		당 제품은 Common Bar로 연결되어 1극에서만 접지선을 체결하면 됨 This product is connected to the common bar, so only one pole needs to be grounded	
설치장소 installation location		옥내 indoor	옥내 outdoor
외형치수 external dimension	1P 2W + G	52(W) × 92(H) × 65.5(D)	52(W) × 92(H) × 65.5(D)
	3P 3W + G	78(W) × 92(H) × 65.5(D)	78(W) × 92(H) × 65.5(D)
	3P 4W + G	104(W) × 92(H) × 65.5(D)	104(W) × 92(H) × 65.5(D)
시험 및 적용규격 test and application standard		KS C IEC 61643-11	



Surge Protective Device  
Power supply SPD

서지보호기

전원용 SPD



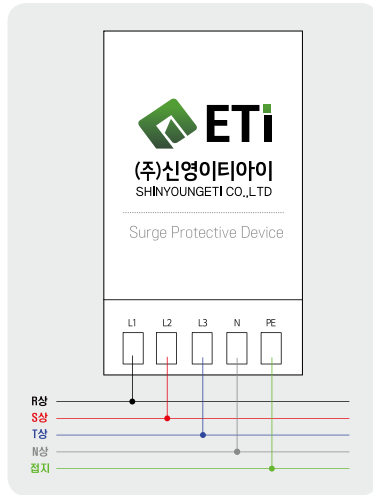
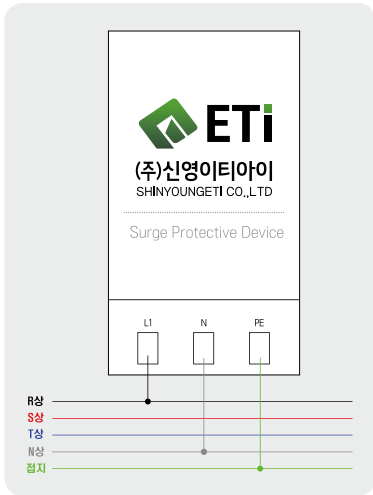
BOX-type

형명 model name		ES-80B	ES-80BC [카운터 형]
등급 class		Class II	Class II
극수 number of poles	[Pole]	2-4 Pole	2-4 Pole
정격전압, Un AC rated voltage	[V]	220~380V	220~380V
최대연속사용전압, Uc AC maximum continuous operating voltage	[V]	AC 320V	AC 320V
전압보호레벨, Up voltage protection level	[kV]	1.5kV/Peak	1.5kV/Peak
최대방전전류, Imax (8/20μs) maximum discharge current	[kA, per mode]	80kA	80kA
공칭방전전류, In (8/20μs) nominal discharge current	[kA, per mode]	40kA	40kA
반응시간 reaction time	[ns]	< 25ns	
누설전류 residual current	[mA]	1mA 이내 within 1mA	
온/습도 범위 temperature / humidity range	[°C] [%]	-40~70°C / 5~95%	
사용주파수 operating frequency	[Hz]	50 / 60Hz	
부착방식 mounting method		Screw	
동작상태 표시창 operating status display window		정상동작 : 녹색, 비정상/사고 후 : 적색 Normal operation: green, abnormal / after accident: red	
보호등급 protection class		IP20	
접속방식 grounding method		단자대접속 terminal block connection	
설치장소 installation location		옥내 indoor	옥내 outdoor
외형치수 external dimension	1P 2W + G	87.2(W) × 130(H) × 80(D)	87.2(W) × 130(H) × 80(D)
	3P 4W + G	95.2(W) × 167(H) × 80(D)	95.2(W) × 167(H) × 80(D)
시험 및 적용규격 test and application standard		KS C IEC 61643-11	

서지보호기

전원용 SPD

Surge Protective Device  
Power supply SPD



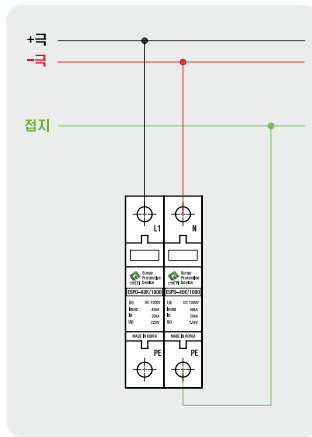
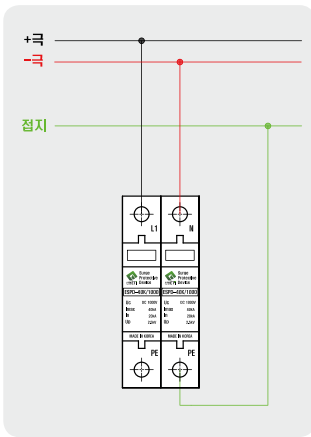
BOX-type

형명 model name	ES-120B	ES-120BC [카운터 형]
등급 class	Class II	Class II
극수 number of poles	[Pole] 2~4 Pole	2~4 Pole
정격전압, Un AC rated voltage	[V] 220~380V	220~380V
최대연속사용전압, Uc AC maximum continuous operating voltage	[V] AC 320V	AC 320V
전압보호레벨, Up voltage protection level	[kV] 2.0kV/Peak	2.0kV/Peak
최대방전전류, I <sub>max</sub> (8/20 $\mu$ s) maximum discharge current	[kA, per mode] 120kA	120kA
공칭방전전류, I <sub>n</sub> (8/20 $\mu$ s) nominal discharge current	[kA, per mode] 60kA	60kA
반응시간 reaction time	[ns]	< 25ns
누설전류 residual current	[mA]	1mA 이내 within 1mA
온/습도 범위 temperature / humidity range	[°C] [%]	-40~70°C / 5~95%
사용주파수 operating frequency	[Hz]	50 / 60Hz
부착방식 mounting method		Screw
동작상태 표시창 operating status display window		정상동작 : 녹색, 비정상/사고 후 : 적색 Normal operation: green, abnormal / after accident: red
보호등급 protection class		IP20
접속방식 grounding method		단자대접속 terminal block connection
설치장소 installation location	옥내 indoor	옥내 outdoor
외형치수 external dimension	1P 2W + G	87.2(W) × 130(H) × 80(D)
	3P 4W + G	95.2(W) × 167(H) × 80(D)
시험 및 적용규격 test and application standard	KS C IEC 61643-11	

서지보호기

Surge Protective Device  
For solar panel(DC) SPD

태양광(DC용)SPD



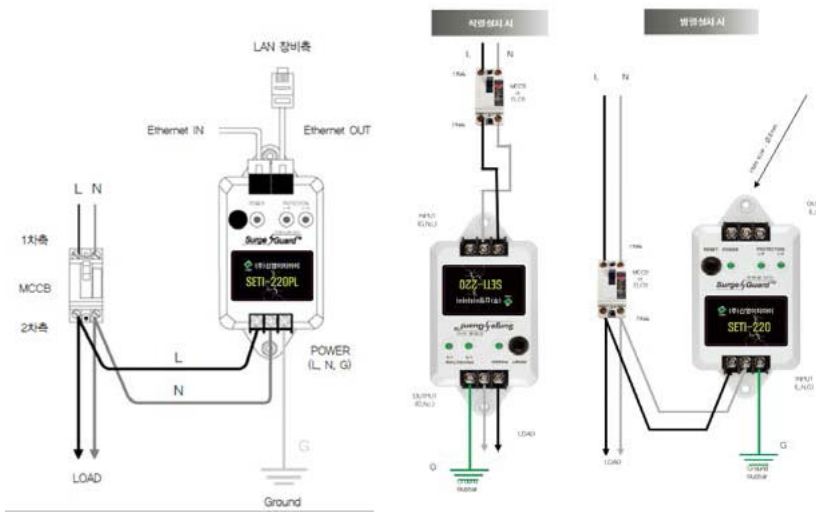
Din-Rail type

형명 model name		ESPD-40K/1000	ESPD-40K/1500
등급 class		Class II	Class II
극수 number of poles	[Pole]	2 Pole	2 Pole
정격전압, Un AC rated voltage	[V]	600~1300V(DC)	1000~1500V(DC)
최대연속사용전압, Uc AC maximum continuous operating voltage	[V]	DC 1000V	DC 1500V
전압보호레벨, Up voltage protection level	[kV]	2.5kV/Peak	2.5kV/Peak
최대방전전류, I <sub>max</sub> (8/20 $\mu$ s) maximum discharge current	[kA, per mode]	40kA	40kA
공칭방전전류, I <sub>n</sub> (8/20 $\mu$ s) nominal discharge current	[kA, per mode]	20kA	20kA
반응시간 reaction time	[ns]	< 25ns	
누설전류 residual current	[mA]	1mA 이내 within 1mA	
온/습도 범위 temperature / humidity range	[°C] [%]	-40~70°C / 5~95%	
사용주파수 operating frequency	[Hz]	50 / 60Hz	
부착방식 mounting method		Din-Rail 35mm	
동작상태 표시창 operating status display window		정상동작 : 녹색, 비정상/사고 후 : 적색 Normal operation: green, abnormal / after accident: red	
보호등급 protection class		IP20	
접속방식 grounding method		당 제품은 Common Bar로 연결되어 1극에서만 접지선을 체결하면 됨 This product is connected to the common bar, so only one pole needs to be grounded	
설치장소 installation location		태양광용 for solar panel	태양광용 for solar panel
외형치수 external dimension	1P 2W + G	36(W) × 92(H) × 65.5(D)	52(W) × 92(H) × 65.5(D)
시험 및 적용규격 test and application standard		KS C IEC 61643-11	

서지보호기

통신/CCTV용 SPD

Surge Protective Device  
Communication / CCTV SPD



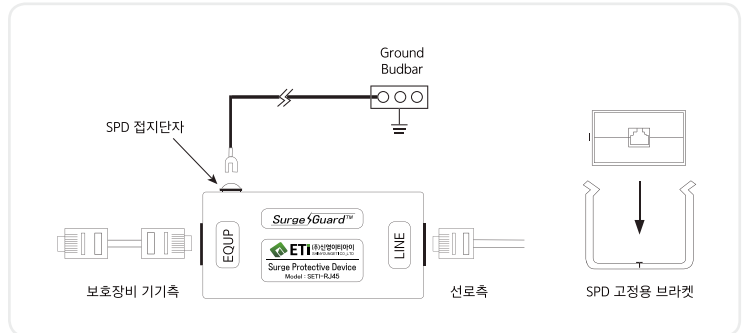
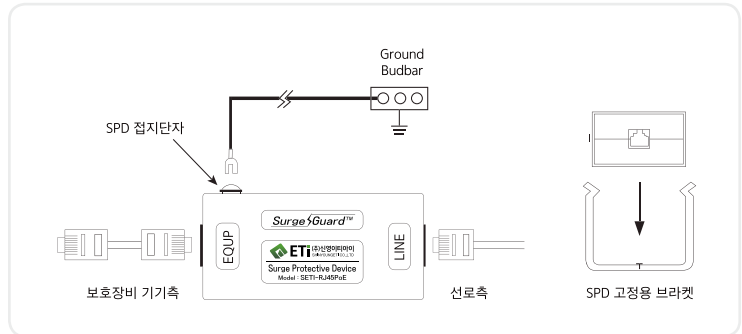
SETI-220PL [AC 전원 + LAN 일체형]  
power supply AC + all-in-one LAN

항목 clause	AC 전원부 power supply AC	LAN 통신부 communication part LAN
공칭전압 Nominal voltage Un	단상 2선식, AC 220V	4선식, DC 24V
최대연속사용전압 Max. continuous operating voltage Uc	AC 275V	DC 27V
전압보호레벨 Voltage protection level Up	1.2kV (@20kV/10kA)	50V (C2, 1.2/50 $\mu$ s 4kV applied)
서지용량 Surge current capacity	40kA/Phase	20kA/mode (80kA Total)
보호모드 Protectiveion mode	L-N, N-G, L-G	L1-G, L2-G, L3-G, L6-G
접속방식 Connection method	병렬접속 parallel connection	직렬접속 serial connection
커넥터 타입 Connector type	Terminal	RJ45 Jack
사용선번 Usable line	L, N, G	1, 2, 3, 6번
최대 데이터 속도 Data rate	-	100 Mbps
삽입손실 Insertion loss	-	< 0.2 dB
동작표시기능 motion display function	Power Status LED On/Off Surge Protection LED L-N & L-G On/Off	-
외함 보호등급 Degreeof protection	IP20	IP20
케이스 재질 Enclosure Material	난연성 ABS fire retardant ABS	난연성 ABS fire retardant ABS
동작온도/습도 Operating temperature & humidity range	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C / 5% ~ 95% RH	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C / 5% ~ 95% RH
제품크기 Dimension	74(W) $\times$ 150(H) $\times$ 51(D) mm	74(W) $\times$ 150(H) $\times$ 51(D) mm
시험 및 적용규격 Test standards	KS CIEC 61643-11	KS CIEC 61643-21

서지보호기

통신/CCTV용 SPD

Surge Protective Device  
Communication / CCTV SPD



SETI-RJ45PoE [8선식 PoE용] · SETI-RJ45 [4선식 Ethernet용]

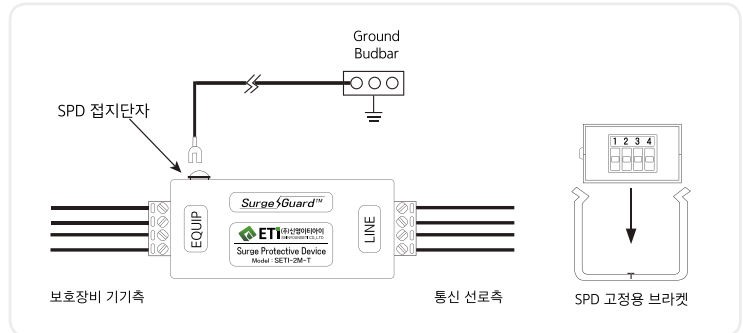
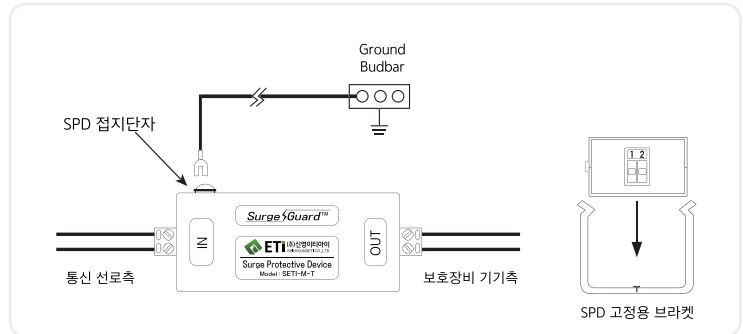
항목 clause	SETI-RJ45PoE	SETI-RJ45
공칭전압 Nominal voltage Un	DC 24V	DC 24V
최대연속사용전압 Max. continuous operating voltage Uc	DC 27V	DC 27V
전압보호레벨 Voltage protection level Up	70V (C2, 1.2/50 $\mu$ s 4kV applied)	50V (C2, 1.2/50 $\mu$ s 4kV applied)
서지용량 Surge current capacity	20kA/mode	20kA/mode
임펄스 내구성 Impulse durability	C2, 8/20 $\mu$ s 2kA 10 times	C2, 8/20 $\mu$ s 2kA 10 times
보호모드 Protection mode	L1-G, L2-G, ... L7-G, L8-G	L1-G, L2-G, L3-G, L6-G
반응속도 Response time	1 Pico-sec	1 Pico-sec
접속방식 Connection method	직렬접속 serial connection	직렬접속 serial connection
커넥터 타입 Connector type	RJ45 Jack	RJ45 Jack
사용선번 Usable line	8선식(1,2,3,6번 데이터/4,5,7,8 전원)	4선식(1,2,3,6번)
데이터 속도 Data rate	1000Mbps	100 Mbps
삽입손실 Insertion loss	< 0.2 dB	< 0.2 dB
외함 보호등급 Degree of protection	IP20	IP20
케이스 재질 Enclosure Material	난연성 ABS fire retardant ABS	난연성 ABS fire retardant ABS
동작온도/습도 Operating temperature & humidity range	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C / 5% ~ 95% RH	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C / 5% ~ 95% RH
제품크기 Dimension	92(W) $\times$ 45(H) $\times$ 27(D) mm	92(W) $\times$ 45(H) $\times$ 27(D) mm
시험 및 적용규격 Test standards	KS C IEC 61643-21	KS C IEC 61643-21



서지보호기

통신/CCTV용 SPD

Surge Protective Device  
Communication / CCTV SPD



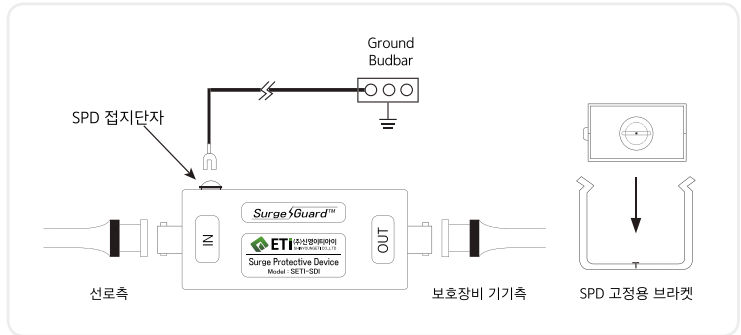
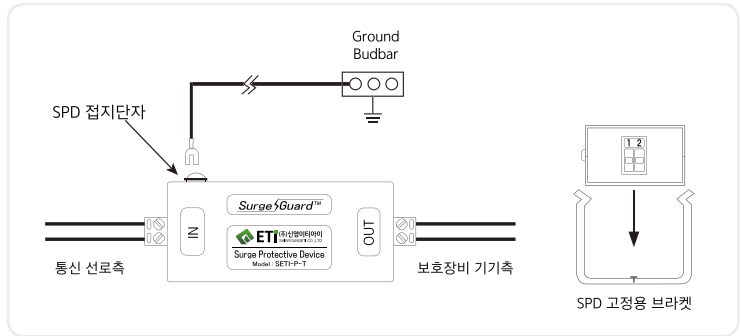
SETI-M-T [2선식 데이터/통신라인용] · SETI-2M-T [4선식 데이터/통신라인용]

항목 clause	SETI-M-T	SETI-2M-T
공칭전압 Nominal voltage Un	DC 24V	DC 24V
최대연속사용전압 Max. continuous operating voltage Uc	DC 27V	DC 27V
전압보호레벨 Voltage protection level Up	65V (C2, 1.2/50 $\mu$ s 10kV applied)	65V (C2, 1.2/50 $\mu$ s 10kV applied)
서지용량 Surge current capacity	20kA/mode	20kA/mode
임펄스 내구성 Impulse durability	C2, 8/20 $\mu$ s 5kA 10 times	C2, 8/20 $\mu$ s 5kA 10 times
보호모드 Protective mode	L1-G, L2-G	L1-G, L2-G, L3-G, L4-G
반응속도 Response time	1 Pico-sec	1 Pico-sec
접속방식 Connection method	직렬접속 serial connection	직렬접속 serial connection
커넥터 타입 Connector type	Pluggable Terminal	Pluggable Terminal
사용선번 Usable line	2선식(L1, L2)	4선식(L1, L2, L3, L4)
데이터 속도 Data rate	23 MHz	23 MHz
삽입손실 Insertion loss	< 0.2 dB	< 0.2 dB
외함 보호등급 Degree of protection	IP20	IP20
케이스 재질 Enclosure Material	난연성 ABS fire retardant ABS	난연성 ABS fire retardant ABS
동작온도/습도 Operating temperature & humidity range	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C / 5% ~ 95% RH	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C / 5% ~ 95% RH
제품크기 Dimension	102(W) × 34(H) × 27(D) mm	109(W) × 45(H) × 27(D) mm
시험 및 적용규격 Test standards	KS C IEC 61643-21	KS C IEC 61643-21

서지보호기

통신/CCTV용 SPD

Surge Protective Device  
Communication / CCTV SPD



SETI-P-T [2선식 국선/인터폰 음성신호용] · SETI-SDI [HD-SDI영상/동축케이블용]

항목 clause	SETI-P-T	SETI-SDI
공칭전압 Nominal voltage Un	DC 48V	DC 5V
최대연속사용전압 Max. continuous operating voltage Uc	DC 56V	DC 7.5V
전압보호레벨 Voltage protection level Up	60V (C2, 1.2/50 $\mu$ s 10kV applied)	20V (C2, 1.2/50 $\mu$ s 10kV applied)
서지용량 Surge current capacity	20kA/mode	20kA/mode
임펄스 내구성 Impulse durability	C2, 8/20 $\mu$ s 5kA 10 times	C2, 8/20 $\mu$ s 5kA 10 times
보호모드 Protectiveion mode	L1-G, L2-G	Line-Shield
반응속도 Response time	1 Pico-sec	1 Pico-sec
접속방식 Connection method	직렬접속 serial connection	직렬접속 serial connection
커넥터 타입 Connector type	Pluggable Terminal	BNC Type (Female - Female)
사용선번 Usable line	2선식(L1, L2)	Line, Shield
데이터 속도 Data rate	23 MHz	3 GHz
삽입손실 Insertion loss	< 0.2 dB	< 0.2 dB
외함 보호등급 Degreeof protection	IP20	IP20
케이스 재질 Enclosure Material	난연성 ABS fire retardant ABS	난연성 ABS fire retardant ABS
동작온도/습도 Operating temperature & humidity range	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C / 5% ~ 95% RH	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C / 5% ~ 95% RH
제품크기 Dimension	102(W) × 34(H) × 27(D) mm	106(W) × 34(H) × 27(D) mm
시험 및 적용규격 Test standards	KS C IEC 61643-21	KS C IEC 61643-21



 **ETi** (주)신영이티아이 SHINYOUNGETI CO.,LTD

충청북도 청주시 서원구 남이면 남석로 396

TEL. 043-266-7733 FAX. 043-267-7733

396 Namseok-ro, Nam-myeon, Seowon-gu, Cheongju-si, Chungcheongbuk-do

TEL. +82-43-266-7733 FAX. +82-43-267-7733

Tech-centered happy company

# SHINYOUNG ETi

기술중심의 행복기업 신영



Develops Into  
Innovation and  
challenge