DEGSON-Global Industrial Connector Manufacturer, Providing Customized Solution To All Partners.















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The catalog is for reference purpose only and details are base on company's specifications



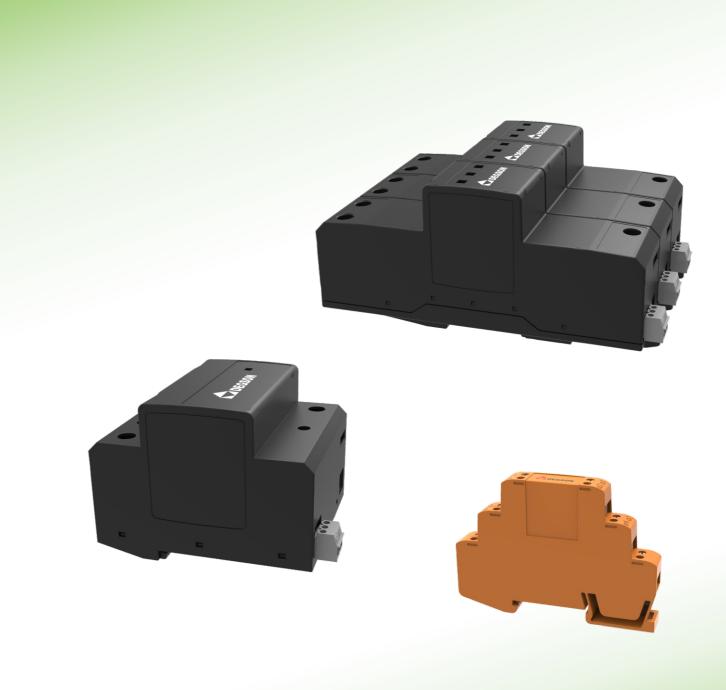








Surge Protective Device







BRIEF INTRODUCTION

DEGSON was founded in 1990.DEGSON is a world-renowned manufacturer of overall solutions for industrial connectors. DEGSON'S laboratory is UL-CTDP (USA)and VDE-TDAP(Germany) dual accreditation laboratory ,it is also a CNAS laboratory. The company achieved ISO9001, ISO14001, ISO80079-34, ISO/TS22163 and IATF16949 management system certifications.

DEGSON products are widely recognized in China, the USA, Germany, the UK, Italy, Spain, Turkey, Japan, South Korea, Singapore, etc. totally hundred countries and regions. DEGSON supply high quality products and provide professional services globally in the industry sectors likely industrial automation, instrument, electric power, railway, marine and offshore, new energy, E-bike industrial elevator, lighting, security, machinery, etc. The company won the recognition from partners among Fortune 500 and industry leading enterprises.

DEGSON is engaged in supplying highly reliable and durable products to serve global customers. The company has a market-leading capability of mould processing, automatic manufacturing and advanced testing. DEGSON has the complete engineering ability to support global customers with the professional customization solution and value-added service.

Based on the core values of "Clients First, Win-win Strategy, Responsibility Integrity, Excellence Pursuit", DEGSON continuously integrates professional technical resources, R&D innovation, product manufacturing and technology application capabilities. Relying on global sales network, DEGSON aims to supply series of multiple varieties of high-quality products and services. We provide global customers with professional and quick connected application solutions, help customers continue to create value. DEGSON is making contributions to creating a smart and interconnected world.



UL-CTDP (USA), VDE-TDAP (Germany) and CNAS labs

Strategic cooperation with UL and VDE











- 1 The general manager of UL global energy &technology division visit our company
- 2 Sven Ohrke, President of VDE global services, comes to DEGSON to discuss strategic cooperation
- ③ VDE Laboratory Accreditation: In July 2010, VDE Issued the "VDE Authorized Laboratory" Certificate to DEGSON's laboratory. UL laboratory accreditation: UL formally issued
- "ULWTDP" certification to DEGSON in March 2013. On April, 2016, UL-CTDP.
- On December, 2016, VDE-TDAP.
- On January, 2017, Pass IRIS system audit.

















Company History



Sales Network

Products have been exported to more than 100 countries and areas in the globe.



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Lightning Protection Knowledge

DEGSON

Lightning Protection Knowledge

Surge Protective Device

Surge Protective Device (SPD), also known as Surge Protector, Lightning Arrester, Transient Voltage Surge Suppressor (TVSS), etc., is used to limit transient overvoltages and dissipate surge currents. The SPD channels high-energy surge currents into the ground to provide protection. It is applied for lightning protection of various power and signal circuits, as well as protection against transient overvoltages (switching surges, electrostatic discharges, etc.) in various electrical applications.

Classification of SPD

Based on application scenarios, there are mainly Power SPD, Signal SPD, Field Instrument SPD, Network SPD, etc. Power SPD is used to protect various power distribution systems and electrical equipment such as inverters, UPS, and switching power supplies. Signal SPD is used to protect various control systems, instruments, PLC, DCS, SCADA, transmitters, flow meters, etc.

Principle of SPD

SPD internally contains at least one nonlinear component capable of rapidly dissipating microsecond-level lightning currents to the ground within nanoseconds (10-9 seconds).

Commonly used components include Gas Discharge Tube (GDT), Metal-Oxide Varistor (MOV), and Transient Voltage Suppressor (TVS).

Gas Discharge Tube (GDT)

GDT's structure involves filling inert gas, such as argon or neon, into a ceramic casing with metal electrodes at both ends. When the external voltage (between the electrodes) exceeds the gas's insulation strength, a sparkover occurs. GDT is a switching-type component with strong discharge capacity, reaching several hundred kA, but it has a slower response time (approximately 100ns). GDT tends to have follow-on current during discharge, maintaining a low-impedance state. At power frequency voltage, the arc is not easily extinguished.

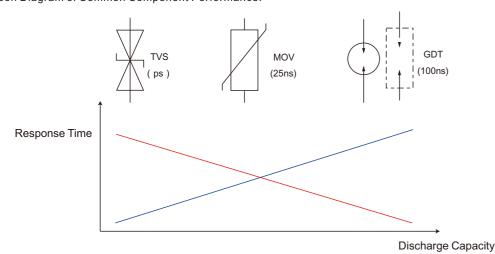
Metal-Oxide Varistor (MOV)

MOV is a metal oxide semiconductor mainly composed of zinc oxide. When the voltage applied to its terminals is lower than its rated voltage, it remains in a high-impedance state. However, when the voltage exceeds its rated voltage, the resistance rapidly decreases, approximating a short circuit. MOV has strong discharge capacity and exhibits good non-linear characteristics, widely used in power SPD. Its response time is faster than GDT (approximately 25ns). The discharge capacity ranges from several hundred A to tens of kA. However, MOV has a leakage current in the microampere range, and its leakage current may increase with aging, leading to temperature rise and potential fire hazards. Therefore, MOV used in power SPD must be equipped with thermal protection measures, such as mechanical disconnect devices.

Transient Voltage Suppressor (TVS):

TVS comes in unipolar and bipolar types, with relatively smaller discharge capacity but faster response time (in the ps range), effectively limiting overvoltages. The discharge capacity ranges from several tens to several hundred A.

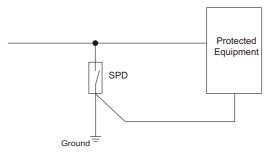
Comparison Diagram of Common Component Performance:

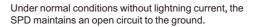


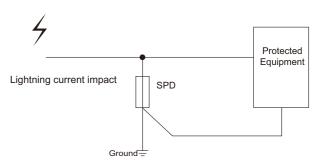
Working Principle of Power SPD

When lightning current occurs in the power grid, the SPD can conduct within nanoseconds (ns), dissipating the lightning current to the ground instantaneously and limiting the voltage to a certain level, thereby protecting electrical equipment from damage.

Working Principle of Power SPD Diagram:





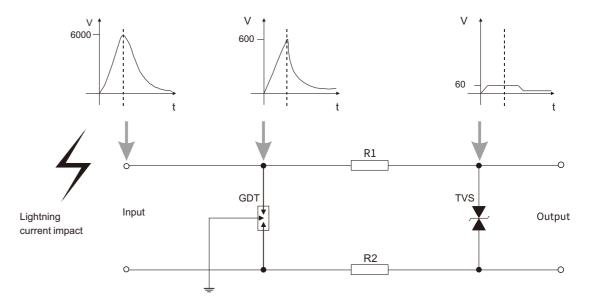


When lightning current passes through, the SPD momentarily short-circuits to the ground, discharging the lightning current to the ground.

Working Principle of Signal SPD

When lightning current occurs in the signal circuit, the Transient Voltage Suppressor (TVS) with the fastest response time first conducts, followed by the Gas Discharge Tube (GDT), dissipating the lightning current to the ground. They cooperate through coupling components (resistors or inductors) to prevent TVS from exceeding its limits. For example, when a 6kV/3kA lightning current is applied to the signal SPD, after going through the GDT, the voltage is limited to about 600V. Then, the TVS clamps the output voltage to around 60V. As a result, the protected electronic equipment only needs to withstand a lower instantaneous overvoltage and is protected from damage. The surge resistance of general instruments' ports reaches 1kV for signal ports and 2kV for power ports.

Working Principle Diagram of Signal SPD:



Revelant standards of SPD

Some relevant international, national, and industry standards followed during the use and installation of SPD

IEC 62305-4 Protection against lightning - Part 1: General principles

IEC 62305-4 Protection against lightning – Part 4: Electrical and electronic systems within structures

IEC 61643-12 Low-voltage surge protective devices – Part 12: Surge protective devices connected to low-voltage power distribution systems – Selection and application principles

GB 50057 - Building Lightning Protection Design Code

GB 50343 - Technical Specification for Lightning Protection of Electronic Information Systems in Buildings

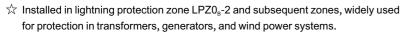
GB 50650 - Lightning Protection Design Code for Petrochemical Facilities

SH/T 3164 - Lightning Protection Design Code for Petrochemical Instrumentation Systems

HG/T 20513 - Grounding Design Regulations for Instrumentation Systems.....

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- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- Can be wired in V-type connection
- 35mm DIN rail moudle





RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T1/T2-440-25W-10R-B
Order Number	30070000129
Electrical Parameters	
Nomal Voltage $(U_{\scriptscriptstyle N})$	440Vac
Maximum Continuous Voltage (U _c)	440Vac
Nominal Discharge Current (8/20μs)(Iո)	25kA
Impulse Discharge Current (10/350μs)(I _{imp})	25kA
Energy Absorption Capacity (W/R)	156.25kJ/ohms
Q Value	12.5As
follow current innterrupt rating ($I_{\scriptscriptstyle B}$)	Infinite (Not applicable)
Voltage Protection Level (Up)	2.4kV
Voltage Protection Level (U₂) @ 5kA	2.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) $(U_{\scriptscriptstyle T})$	690V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: (125Vac/1A), Minimum: (5V/1mA)
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

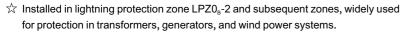


Dimensions	
Length	150mm
Width	36mm
Height	72mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: I
Based on EN 61643-11	Class: 1
Based on GB/T 18802.11	Class: I
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram
72.6 66 44 44 12.2 9 \$\frac{72.6}{66}	MOV T. NC COM NO N/PE

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- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- Can be wired in V-type connection
- 35mm DIN rail moudle





RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T1/T2-600-25W-10R-B
Order Number	30070000130
Electrical Parameters	
Nomal Voltage (U _N)	600Vac
Maximum Continuous Voltage (U _c)	600Vac
Nominal Discharge Current (8/20μs)(Iո)	25kA
Impulse Discharge Current (10/350 μ s)(I_{imp})	25kA
Energy Absorption Capacity (W/R)	156.25kJ/ohms
Q Value	12.5As
follow current innterrupt rating (I $_{\scriptscriptstyle \mathrm{fl}}$)	Infinite (Not applicable)
Voltage Protection Level (U₂)	3.0kV
Voltage Protection Level (U₂) @ 5kA	2.4kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) $(U_{\scriptscriptstyle T})$	690V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m (maximum), 2N.m (recommended)
Alarm Information	
Working Status/Fault Indication	Black/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/0.5mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

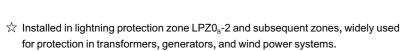


Dimensions	
Length	150mm
Width	36mm
Height	72mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(No condensation)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC/EN 61643-11	Class: 1
Based on GB/T 18802.11	Class: I
Based on UL 1449	4CA
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram
72.6 66 44 9 9 7 12.2	MOV T. NC COM NO N/PE

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- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- Can be wired in V-type connection
- 35mm DIN rail moudle





RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T1/T2-760-25W-10R-B
Order Number	30070000131
Electrical Parameters	
Nomal Voltage (U _N)	690Vac
Maximum Continuous Voltage (U _c)	760Vac
Nominal Discharge Current (8/20µs)(I,)	25kA
Impulse Discharge Current (10/350 μ s)($I_{\tiny{imp}}$)	25kA
Energy Absorption Capacity (W/R)	156.25kJ/ohms
Q Value	12.5As
follow current innterrupt rating ($I_{\rm f}$)	Infinite (Not applicable)
Voltage Protection Level (Up)	3.5kV
Voltage Protection Level (Up) @ 5kA	2.5kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _τ)	1000V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Black/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m



Dimensions	
Length	150mm
Width	36mm
Height	72mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: I
Based on EN 61643-11	Class: 1
Based on GB/T 18802.11	Class: I
Number of Ports	1
Technology	GAP&MOV
Installation	·
Installation Type	DIN Rail: 35mm

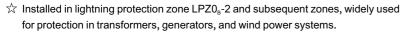
Dimensional Drawing	Circuit Diagram
72.6 66 44 12.2 9	L MOV MOV T. T. NC COM NO N/PE

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T1/T2

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- Can be wired in V-type connection
- 35mm DIN rail moudle





RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T1/T2-1000-15W-10R-B
Order Number	30070000132
Electrical Parameters	
Nomal Voltage $(U_{\scriptscriptstyle N})$	1000Vac
Maximum Continuous Voltage (U _c)	1000Vac
Nominal Discharge Current (8/20µs)(In)	15kA
Impulse Discharge Current (10/350 μ s)(I $_{imp}$)	15kA
Energy Absorption Capacity (W/R)	56.25kJ/ohms
Q Value	7.5As
follow current innterrupt rating (I $_{\scriptscriptstyle fi}$)	Infinite (Not applicable)
Voltage Protection Level $(U_{\scriptscriptstyle p})$	4.5kV
Voltage Protection Level (U,) @ 5kA	4.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) ($U_{\scriptscriptstyle T}$)	1600V/5s,1400V/120mins
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m(Maximum), 2N.m(recommended)
Alarm Information	
Working Status/Fault Indication	Black/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/0.5mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m



Dimensions	
Length	150mm
Width	36mm
Height	72mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(No condensation)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC/EN 61643-11	Class: 1
Based on GB/T 18802.11	Class: I
Based on UL 1449	4CA
Number of Ports	1
Technology	GAP&MOV
Installation	'
Installation Type	DIN Rail: 35mm

72.6 66 44 12.2 12.2 10.0 10.0 10.0 10.0 10.0 10.0	Dimensional Drawing	Circuit Diagram
	36 44 44 59	MOV T. NC COM NO

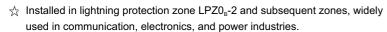
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DEGSON T1/T2

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail moudle

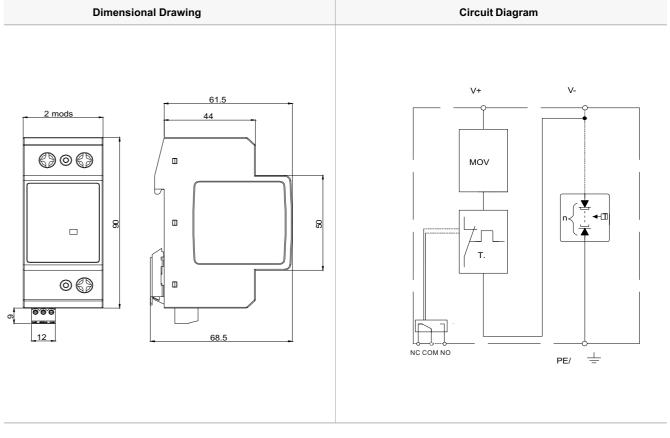




RoHS,UL 94 V-0,CE

Articles	DSPT-T1/T2-60-25W-11R
Order Number	30070000133
Electrical Parameters	
Nomal Voltage (U _N)	60Vac
Maximum Continuous Voltage (U _c)	60Vac
Nominal Discharge Current (8/20μs)(Iո)	25kA
Impulse Discharge Current (10/350µs)(I _{imp})	25kA(V+/V-),50kA(V-/PE)
Energy Absorption Capacity (W/R)	156.25kJ/ohms(V+/V-),625kJ/ohms(V-/PE)
Q Value	12.5As(V+/V-),25As(V-/PE)
follow current innterrupt rating (In)	Infinite (Not applicable)
Voltage Protection Level (Up)	1.0kV(V+/-),1.5kV(V-/PE)
Voltage Protection Level (U _p) @ 5kA	0.6kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	2kA(10kA)
Temporary Overvoltage (TOV) (U _T)	1
TOV Characteristics	1
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m(Maximum), 2N.m(recommended)
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
ength	90mm
Vidth	38.5mm
leight	68.5mm
laterial Specifications	
ousing Material	Thermoplastic Material, UL94 V-0 compliant.
nvironmental Conditions	
stallation Location	Indoor use only
perating Temperature	-40°C+85°C
elative Humidity	≤95%(No condensation)
ltitude	≤4km
otection Class	IP20
andard Specifications	
sed on IEC 61643-31	Class I + Class II
sed on EN 61643-31	Class: 1+2
sed on GB/T 18802.31	Class I + Class II
umber of Ports	1
echnology	GAP&MOV
stallation	
stallation Type	DIN Rail: 35mm



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T1/T2

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail moudle
- ✓ Used for 240/415Vac distribution systems, typically installed in lightning protection zone LPZ0_e-2 and subsequent zones, widely used in communication, electronics, and power industries.



RoHS,UL 94 V-0,TUV,CE,UL 1449,CB,DEKRA(KEMA)

Articles	DSPT-T1/T2-320-25W-11R
Order Number	30070000134
Electrical Parameters	
Nomal Voltage (U _N)	240/415Vac
Maximum Continuous Voltage (U _c)	320Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20µs)(In)	25kA(L-N),100kA(N-PE)
Impulse Discharge Current (10/350µs)(I _{imp})	25kA(L-N),100kA(N-PE)
Energy Absorption Capacity (W/R)	156.25kJ/ohms(L-N),2500kJ/ohms(N-PE)
Q Value	12.5As(L-N),50As(N-PE)
follow current innterrupt rating (I_n)	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (Up)	1.5kV(L-N),1.5kV(N-PE)
Voltage Protection Level (Up) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	2kArms
Temporary Overvoltage (TOV) $(U_{\scriptscriptstyle T})$	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m



Dimensions	
Length	90mm
Width	38.5mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class I + Class II
Based on EN 61643-11	Class: 1+2
Based on GB/T 18802.11	Class I + Class II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram
35.8	NC COM NO

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DEGSON T1/T2

Type I/II Surge Protector for Power Supply

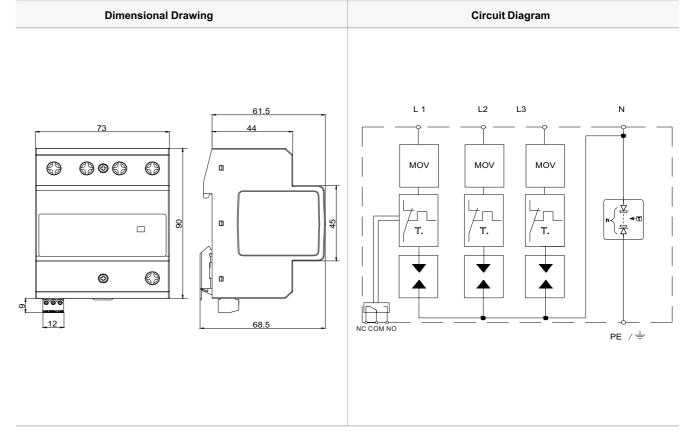
- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail moudle
- Used for 240/415Vac distribution systems, typically installed in lightning protection zone LPZ0_B-2 and subsequent zones, widely used in communication, electronics, and power industries.



RoHS,UL 94 V-0,TUV,CE,UL 1449,CB,DEKRA(KEMA)

Articles	DSPT-T1/T2-320-25W-31R
Order Number	30070000135
Electrical Parameters	
Nomal Voltage (U _N)	240/415Vac
Maximum Continuous Voltage (U _c)	320Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(Iո)	25kA(L-N),100kA(N-PE)
Impulse Discharge Current (10/350µs)(I _{imp})	25kA(L-N),100kA(N-PE)
Energy Absorption Capacity (W/R)	156.25kJ/ohms(L-N),2500kJ/ohms(N-PE)
Q Value	12.5As(L-N),50As(N-PE)
follow current innterrupt rating (I _s)	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (Up)	1.5kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
ength	90mm
/idth	73mm
ight	68.5mm
terial Specifications	
ising Material	Thermoplastic Material, UL94 V-0 compliant.
vironmental Conditions	
tallation Location	Indoor use only
perating Temperature	-40°C+85°C
lative Humidity	≤95%(max 40°C)
tude	≤4km
tection Class	IP20
ndard Specifications	
sed on IEC 61643-1/11	Class I + Class II
sed on EN 61643-11	Class: 1+2
sed on GB/T 18802.11	Class I + Class II
mber of Ports	1
chnology	GAP&MOV
stallation	
tallation Type	DIN Rail: 35mm



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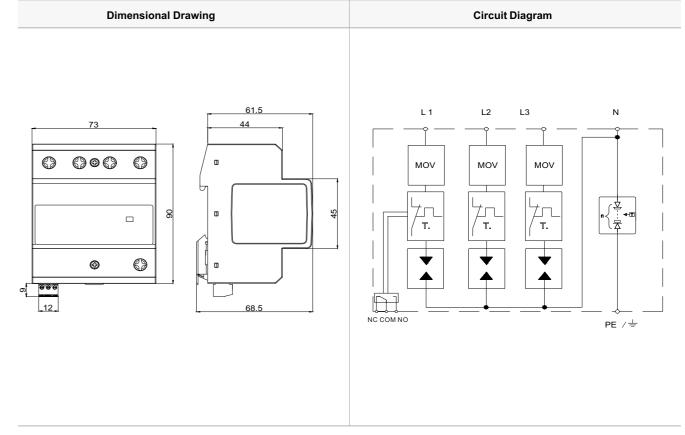
- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail moudle
- Suitable for 240/415Vac TNS or TT distribution systems, typically installed in lightning protection zone LPZO_e-2 and subsequent zones, widely used in communication, electronics, and power industries.



RoHS,UL 94 V-0,TUV,CE,UL 1449,CB,DEKRA(KEMA)

Articles	DSPT-T1/T2-320-15W-31R
Order Number	30070000136
lectrical Parameters	
Iomal Voltage (U _N)	240/415Vac
aximum Continuous Voltage (U _c)	320Vac(L-N),260Vac(N-PE)
ominal Discharge Current (8/20μs)(Iո)	15kA(L-N),60kA(N-PE)
pulse Discharge Current (10/350μs)(I _{imp})	15kA(L-N),60kA(N-PE)
ergy Absorption Capacity (W/R)	156.25kJ/ohms(L-N),900kJ/ohms(N-PE)
/alue	7.5As(L-N),30As(N-PE)
llow current innterrupt rating (I _s)	Infinite (Not applicable)(L-N),100A(N-PE)
oltage Protection Level (Up)	1.5kV(L-N),1.5kV(N-PE)
oltage Protection Level (Up) @ 5kA	1.0kV
esponse Time	≤100ns
aximum Backup Fuse with branch wiring	≤250AgL/gG
nort-Circuit Current Rating(I _{SCCR})	25kArms
mporary Overvoltage (TOV) (U₁)	480V/120min(L-N),1200V/200ms(N-PE)
DV Characteristics	Endurance(L-N),Endurance(N-PE)
nnection Data	
aximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
nimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
ripping Length	10mm
rew Torque	3N.m
arm Information	
orking Status/Fault Indication	Green/Red
mote Signaling Contact Type	Floating Changeover Contact
mote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
emote Signaling Contact Maximum Wiring Area	1.5mm
mote Signaling Contact Stripping Length	7mm
mote Signaling Contact Screw Torque	0.2N.m

Dimensions	
ength	90mm
Vidth	73mm
Height	68.5mm
laterial Specifications	
ousing Material	Thermoplastic Material, UL94 V-0 compliant.
vironmental Conditions	
tallation Location	Indoor use only
perating Temperature	-40°C+85°C
elative Humidity	≤95%(max 40°C)
ltitude	≤4km
otection Class	IP20
andard Specifications	
sed on IEC 61643-1/11	Class I + Class II
ased on EN 61643-11	Class: 1+2
sed on GB/T 18802.11	Class I + Class II
umber of Ports	1
echnology	GAP&MOV
stallation	·
stallation Type	DIN Rail: 35mm



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DEGSON

Type II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail moudle



Suitable for 240/415Vac TNS or TT distribution systems, typically installed in lightning protection zone LPZ0₈-3 and subsequent zones, widely used in building distribution, data centers, and railway power systems.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T2-385-120W-31R
Order Number	30070000137
Electrical Parameters	
Nomal Voltage (U _N)	240/415Vac
Maximum Continuous Voltage (U _c)	385Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(Iո)	60kA(L-N),60kA(N-PE)
Maximum Discharge Current(8/20µs)(I _{max})	120kA(L-N),120kA(N-PE)
follow current innterrupt rating ($I_{\scriptscriptstyle fi}$)	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (Up)	1.8kV(L-N),1.5kV(N-PE)
Voltage Protection Level (Up) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤200AgL/gG
Short-Circuit Current Rating(I_{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _⊤)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	73mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: II
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Dimensional Drawing	Circuit Diagram
MOV MOV MOV MOV MOV TT. T.	73 44	MOV MOV MOV T. T. T. T.

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- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail moudle



Suitable for 240/415Vac TNS or TT distribution systems, typically installed in lightning protection zone LPZ0₈-3 and subsequent zones, widely used in building distribution, data centers, and railway power systems.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T2-385-100W-31R
Order Number	30070000138
Electrical Parameters	
Nomal Voltage $(U_{\scriptscriptstyle N})$	240/415Vac
Maximum Continuous Voltage (U _c)	385Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20 μ s)(I $_n$)	50kA(L-N),50kA(N-PE)
Maximum Discharge Current(8/20 μ s)(I_{max})	100kA(L-N),100kA(N-PE)
follow current innterrupt rating (I $_{\scriptscriptstyle \rm fl}$)	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (Up)	1.8kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U,) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤160AgL/gG
Short-Circuit Current Rating(I_{SCCR})	25kArms
Temporary Overvoltage (TOV) ($U_{\scriptscriptstyle T}$)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

limensions	
ength	90mm
/idth	73mm
leight	68.5mm
laterial Specifications	
ousing Material	Thermoplastic Material, UL94 V-0 compliant.
nvironmental Conditions	
estallation Location	Indoor use only
perating Temperature	-40°C+85°C
elative Humidity	≤95%(max 40°C)
ltitude	≤4km
rotection Class	IP20
tandard Specifications	
ased on IEC 61643-1/11	Class: II
ased on EN 61643-11	Class: 2
ased on GB/T 18802.11	Class: II
lumber of Ports	1
echnology	GAP&MOV
stallation	
stallation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram
73 44 44 61.5 68.5	L1 L2 L3 N MOV MOV MOV T. T. T. T. PE /=

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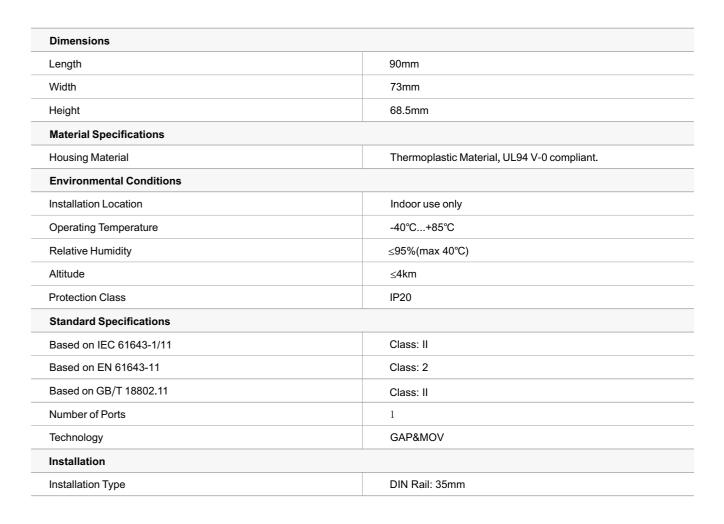
- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail moudle

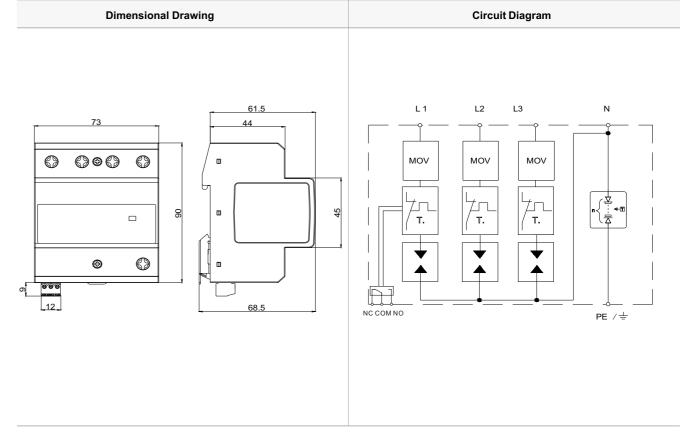


☆ Suitable for 240/415Vac TNS or TT distribution systems, typically installed in lightning protection zone LPZ0_e-3 and subsequent zones, widely used in building distribution, data centers, and railway power systems.

RoHS,UL 94 V-0,TUV,CE

articles	DSPT-T2-385-80W-31R
Order Number	30070000139
Electrical Parameters	
Nomal Voltage (U _N)	240/415Vac
Maximum Continuous Voltage (U _c)	385Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20µs)(In)	40kA(L-N),40kA(N-PE)
Maximum Discharge Current(8/20μs)(I _{max})	80kA(L-N),80kA(N-PE)
follow current innterrupt rating (In)	Infinite (Not applicable)(L-N),100A(N-PE)
/oltage Protection Level (Up)	1.8kV(L-N),1.5kV(N-PE)
/oltage Protection Level (Up) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U₁)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Norking Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m





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- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail moudle



RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T2-385-80W-11R
der Number	30070000140
lectrical Parameters	
Nomal Voltage (U _N)	240/415Vac
Maximum Continuous Voltage (U _c)	385Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(Iո)	40kA(L-N),40kA(N-PE)
Maximum Discharge Current(8/20μs)(I _{max})	80kA(L-N),80kA(N-PE)
follow current innterrupt rating (I _s)	Infinite (Not applicable)(L-N),100A(N-PE)
/oltage Protection Level (Up)	1.8kV(L-N),1.5kV(N-PE)
/oltage Protection Level (Up) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U ₇)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Norking Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m



Dimensions	
Length	90mm
Width	38.5mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: II
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	GAP&MOV
nstallation	
Installation Type	DIN Rail: 35mm

35.8 61.5 MOV MOV T. T. NC COM NO PE/ =

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- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module
- Pluggable shockproof module integrated base, Class II/2 level surge protector, suitable for TN-S and TT distribution systems, typically installed in lightning protection zone LPZ0₈-3 and subsequent zones.



RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T2-385-60M-31R
Order Number	30070000141
Electrical Parameters	
Nomal Voltage (U _N)	230V/400V
Maximum Continuous Voltage (U _c)	385Vac(L-N),255Vac(N-PE)
Nominal Discharge Current (8/20µs)(In)	30kA
Maximum Discharge Current(8/20μs)(I _{max})	60kA
follow current innterrupt rating $(I_{\scriptscriptstyle fi})$	1
Voltage Protection Level (Up)	2.0kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.3kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _⊤)	440V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m (maximum), 2N.m (recommended)
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m



Dimensions	
Length	90mm
Width	72mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(No condensation)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on UL 1449	4CA
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	MOV&GDT
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	NC COM NO T.S T.S T.S T.S ± //

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T2

Type II Surge Protector for Power Supply

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life

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- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module
- protector, suitable for TN-S and TT distribution systems, typically installed in lightning protection zone LPZ0₈-3 and subsequent zones.



RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T2-385-60M-11R
Order Number	30070000142
Electrical Parameters	
Nomal Voltage (U_N)	230V/400V
Maximum Continuous Voltage (U _c)	385Vac(L-N),255Vac(N-PE)
Nominal Discharge Current (8/20µs)(In)	30kA
Maximum Discharge Current(8/20μs)(I _{max})	60kA
follow current innterrupt rating ($I_{\scriptscriptstyle fi}$)	1
Voltage Protection Level (U _p)	2.0kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U₅) @ 5kA	1.3kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _⊤)	440V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

imensions	
ength	90mm
/idth	36mm
eight	66mm
aterial Specifications	
ousing Material	Thermoplastic Material, UL94 V-0 compliant.
vironmental Conditions	
stallation Location	Indoor use only
perating Temperature	-40°C+85°C
elative Humidity	≤95%(max 40°C)
titude	≤4km
rotection Class	IP20
andard Specifications	
ased on IEC 61643-1/11	Class: II
ased on EN 61643-11	Class: 2
ased on GB/T 18802.11	Class: II
umber of Ports	1
echnology	MOV&GDT
stallation	
stallation Type	DIN Rail: 35mm

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DEGSON

Number of Ports
Technology

Installation Type

Installation



T2

Type II Surge Protector for Power Supply

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module
- ☆ Pluggable shockproof module integrated base, Class II/2 level surge
 protector, suitable for TN-S and TT distribution systems, typically installed
 in lightning protection zone LPZO₈-3 and subsequent zones.



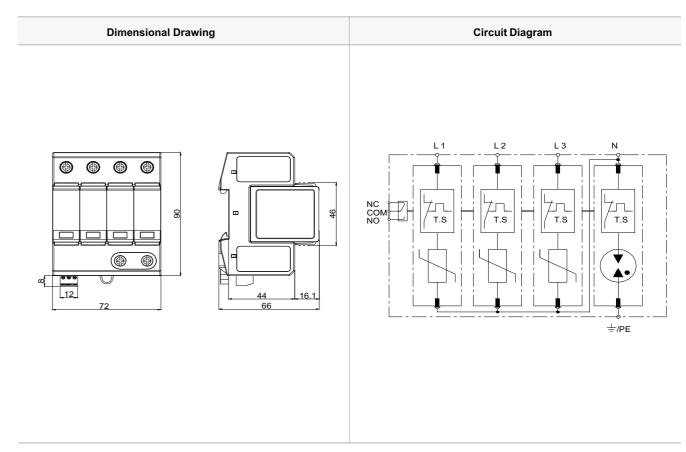
RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T2-385-40M-31R	
Order Number	30070000143	
Electrical Parameters		
Nomal Voltage (U_N)	230V/400V	
Maximum Continuous Voltage (U _c)	385Vac(L-N),255Vac(N-PE)	
Nominal Discharge Current (8/20μs)(Iո)	20kA	
Maximum Discharge Current(8/20μs)(I _{max})	40kA	
follow current innterrupt rating (I _s)	1	
Voltage Protection Level (Up)	1.8kV(L-N),1.5kV(N-PE)	
Voltage Protection Level (Up) @ 5kA	1.3kV	
Response Time	≤25ns	
Maximum Backup Fuse with branch wiring	≤125AgL/gG	
Short-Circuit Current Rating(I _{SCCR})	25kArms	
Temporary Overvoltage (TOV) (U₁)	440V/5s	
TOV Characteristics	Endurance	
Connection Data		
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire	
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire	
Stripping Length	10mm	
Screw Torque	3N.m	
Alarm Information		
Working Status/Fault Indication	Green/Red	
Remote Signaling Contact Type	Floating Changeover Contact	
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA	
Remote Signaling Contact Maximum Wiring Area	1.5mm	
Remote Signaling Contact Stripping Length	7mm	
Remote Signaling Contact Screw Torque	0.2N.m	



MOV&GDT

DIN Rail: 35mm

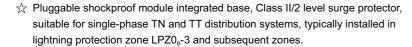


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- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module





RoHS,UL 94 V-0,TUV,CE,UL 1449

ticles	DSPT-T2-385-40M-11R
rder Number	30070000144
lectrical Parameters	
Iomal Voltage (U _N)	230V/400V
Maximum Continuous Voltage (U _c)	385Vac(L-N),255Vac(N-PE)
Iominal Discharge Current (8/20μs)(Iո)	20kA
Maximum Discharge Current(8/20µs)(I _{max})	40kA
ollow current innterrupt rating (I,)	1
oltage Protection Level (U₅)	1.8kV(L-N),1.5kV(N-PE)
oltage Protection Level (U₂) @ 5kA	1.3kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
emporary Overvoltage (TOV) (U _T)	440V/5s
OV Characteristics	Endurance
Connection Data	
1aximum Wiring Area	25mm² Single Core Wire / Flexible Wire
linimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
tripping Length	10mm
crew Torque	3N.m
larm Information	
Vorking Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
emote Signaling Contact Stripping Length	7mm
temote Signaling Contact Screw Torque	0.2N.m

imensions	
ength	90mm
/idth	36mm
eight	66mm
aterial Specifications	
using Material	Thermoplastic Material, UL94 V-0 compliant.
vironmental Conditions	
stallation Location	Indoor use only
perating Temperature	-40°C+85°C
lative Humidity	≤95%(max 40°C)
titude	≤4km
otection Class	IP20
andard Specifications	
ased on IEC 61643-1/11	Class: II
ased on EN 61643-11	Class: 2
sed on GB/T 18802.11	Class: II
ımber of Ports	1
echnology	MOV&GDT
stallation	·
tallation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram
8 9 44 16.1	NC COM NO T.S T.S

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- Lossless filtering technology
- Reliable temperature control tripping technology
- Ultra-compact size
- Fault indication, remote signaling contact
- 35mm DIN rail moudle



☆ Applied to single-phase TN and TT distribution systems, typically installed in lightning protection zone LPZ1-3 and subsequent zones.

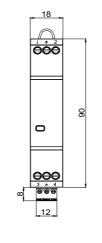
RoHS,UL 94 V-0,TUV,CE

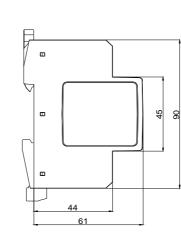
Articles	DSPT-T3-30-2M-11R	
Order Number	30070000145	
Electrical Parameters		
Nomal Voltage (U _N)	24Vac/24Vdc	
Maximum Continuous Voltage (U _c)	30Vac	
Nominal Discharge Current (8/20µs)(In)	1kA(1-2,1/2-PE)	
Combination Wave (U _{oc})	2kA(1-2,1/2-PE)	
Rated Load Current (I _L)	25A	
Voltage Protection Level (U _p)	0.18kV(1-2),0.60kV(1/2-PE)	
Response Time	≤25ns(1-2), ≤100ns(1/2-PE)	
Maximum Backup Fuse with branch wiring	≤25AgL/gG	
Short-Circuit Current Rating(I _{SCCR})	6kArms	
Connection Data		
Maximum Wiring Area	4mm ² Single Core Wire/ 2.5mm ² Flexible Wire	
Minimum Wiring Area	0.5mm ² Single Core Wire / Flexible Wire	
Stripping Length	8mm	
Screw Torque	0.4N.m	
Alarm Information		
Working Status/Fault Indication	Green/Red	
Remote Signaling Contact Type	Floating Changeover Contact	
Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)	
Remote Signaling Contact Maximum Wiring Area	1.5mm	
Remote Signaling Contact Stripping Length	7mm	
Remote Signaling Contact Screw Torque	0.2N.m	

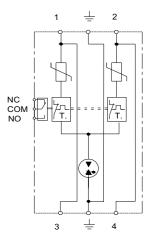


Dimensions	
Length	90mm
Width	18mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: III
Based on EN 61643-11	Class: 3
Based on GB/T 18802.11	Class: III
Number of Ports	1
Technology	MOV&GDT
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram







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Т3

Type III Surge Protector for Power Supply

- Lossless filtering technology
- Reliable temperature control tripping technology
- Ultra-compact size

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- Fault indication, remote signaling contact
- 35mm DIN rail moudle

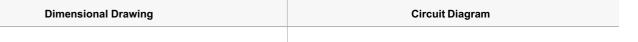


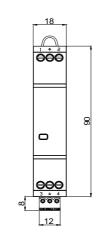
☆ Used for protection in industrial electrical equipment control power lines, typically installed in lightning protection zone LPZ1-3 and subsequent zones.

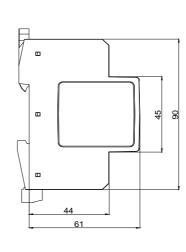
RoHS,UL 94 V-0,TUV,CE

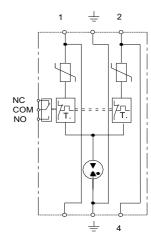
Articles	DSPT-T3-255-6M-11R
Order Number	30070000146
Electrical Parameters	
Nomal Voltage $(U_{\scriptscriptstyle N})$	230V
$Maximum \ Continuous \ \ Voltage \ (U_c)$	255Vac
Nominal Discharge Current (8/20µs)(In)	3kA(1-2,1/2-PE)
Combination Wave (U _{oc})	6kA(1-2,1/2-PE)
Rated Load Current (I _L)	25A
Voltage Protection Level $(U_{_{p}})$	1.25kV(1-2),1.50kV(1/2-PE)
Response Time	≤25ns(1-2), ≤100ns(1/2-PE)
Maximum Backup Fuse with branch wiring	≤25AgL/gG
Short-Circuit Current Rating(I _{SCCR})	6kArms
Temporary Overvoltage (TOV) (U _⊤)	337V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	4mm ² Single Core Wire/ 2.5mm ² Flexible Wire
Minimum Wiring Area	0.5mm² Single Core Wire / Flexible Wire
Stripping Length	8mm
Screw Torque	0.4N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	18mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: III
Based on EN 61643-11	Class: 3
Based on GB/T 18802.11	Class: III
Number of Ports	1
Technology	MOV&GDT
Installation	
Installation Type	DIN Rail: 35mm









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Photovoltaic Special Power Surge Protector

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module



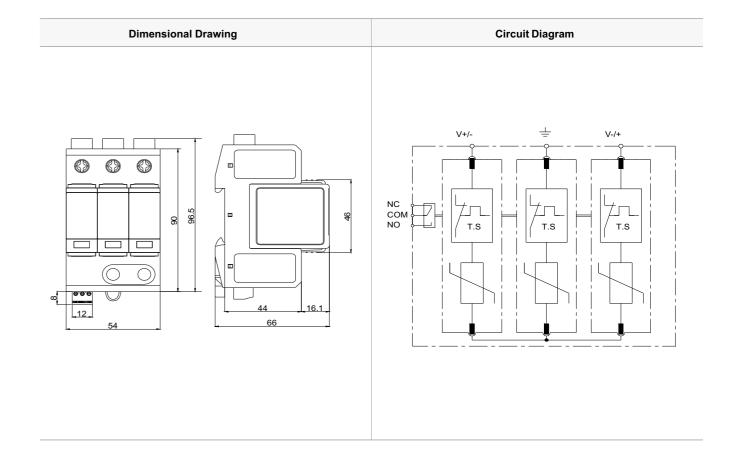
½ Y-type structure, fully symmetric protection, suitable for 1500V

DC photovoltaic distribution systems, typically installed in lightning protection zone LPZ 0₈-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-PV-1500-40M-21R	
Order Number	30070000147	
Electrical Parameters		
Maximum Photovoltaic Voltage (U _{CPV})	1500V	
Nominal Discharge Current (8/20µs)(In)	20kA	
Maximum Discharge Current (8/20μs)(I _{max})	40kA	
Voltage Protection Level (U₂)	5.0kV	
Voltage Protection Level (U₀) @ 5kA	3.8kV	
Response Time	≤25ns	
Maximum Backup Fuse with branch wiring	unnecessary	
Short-Circuit Current Rating(I _{SCPV})	1000A	
Connection Data		
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire	
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire	
Stripping Length	10mm	
Screw Torque	3N.m	
Alarm Information		
Working Status/Fault Indication	Green/Red	
Remote Signaling Contact Type	Floating Changeover Contact	
Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)	
Remote Signaling Contact Maximum Wiring Area	1.5mm	
Remote Signaling Contact Stripping Length	7mm	
Remote Signaling Contact Screw Torque	0.2N.m	

Dimensions	
ength	97mm
Width	54mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on EN 50539-11:2013	Class: 2
Based on CGC/GF 026:2013	Class: 2
Number of Ports	1
Technology	MOV
nstallation	
nstallation Type	DIN Rail: 35mm



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Photovoltaic Special Power Surge Protector

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module



RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-PV-1200-40M-21R
Order Number	30070000148
Electrical Parameters	
Maximum Photovoltaic Voltage (U _{CPV})	1200V
Nominal Discharge Current (8/20µs)(In)	20kA
Maximum Discharge Current (8/20μs)(I _{max})	40kA
Voltage Protection Level (Up)	4.0kV
Voltage Protection Level (U _p) @ 5kA	3.0kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	unnecessary
Short-Circuit Current Rating(I _{SCPV})	1000A
Connection Data	
Maximum Wiring Area	25mm² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
ength	90mm
Vidth	54mm
leight	66mm
Material Specifications	
ousing Material	Thermoplastic Material, UL94 V-0 compliant.
nvironmental Conditions	
nstallation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
ltitude	≤4km
rotection Class	IP20
tandard Specifications	
ased on EN 50539-11:2013	Class: 2
ased on CGC/GF 026:2013	Class: 2
lumber of Ports	1
echnology	MOV
nstallation	
estallation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram
8 8 12 54	NC COM T.S T.S T.S

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Photovoltaic Special Power Surge Protector

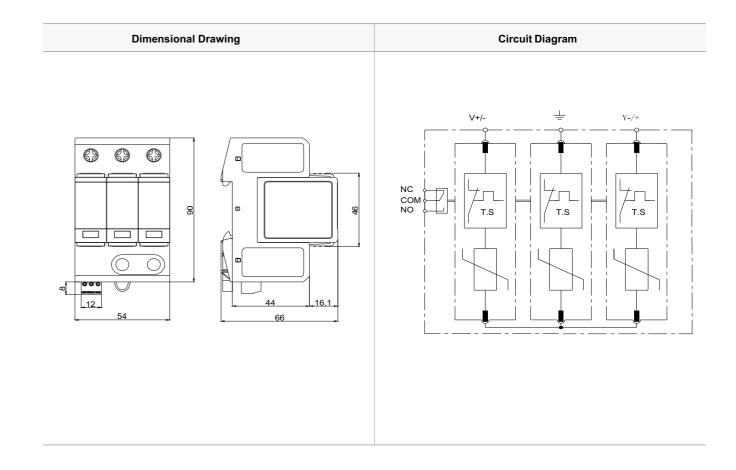
- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module



RoHS,UL 94 V-0,TUV,CE

Electrical Parameters Maximum Photovoltaic Voltage (U _{crv}) Maximum Photovoltaic Voltage (U _{crv}) Nominal Discharge Current (8/20µs)(I _m) Maximum Discharge Current (8/20µs)(I _m) Voltage Protection Level (U _s) Voltage Protection Level (U _s) Voltage Protection Level (U _s) Sepanse Time ≥25ns Maximum Backup Fuse with branch wiring unnecessary Short-Circuit Current Rating(I _{scrv}) 1000A Connection Data Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Working Status/Fault Indication Green/Red Remote Signaling Contact Switching Capacity Maximum: (125Vac/1A), Minimum: (5V/1mA) Remote Signaling Contact Stripping Length 7mm Remote Signaling Contact Stripping Length 7mm Remote Signaling Contact Stripping Length 7mm	Articles	DSPT-PV-600-40M-21R
Maximum Photovoltaic Voltage (U _{cmy}) 600V Nominal Discharge Current (8/20μs)(I,n) 20kA Maximum Discharge Current (8/20μs)(I _{cm}) 40kA Voltage Protection Level (U _n) 2.8kV Voltage Protection Level (U _n) @ 5kA 2.0kV Response Time ≤25ns Maximum Backup Fuse with branch wiring unnecessary Short-Circuit Current Rating(I _{scov}) 1000A Connection Data Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Order Number	30070000149
Nominal Discharge Current (8/20μs)(I,₀) 20kA Maximum Discharge Current (8/20μs)(I,₀₀) 40kA Voltage Protection Level (U,₀) 2.8kV Voltage Protection Level (U,₀) @ 5kA 2.0kV Response Time ≤25ns Maximum Backup Fuse with branch wiring unnecessary Short-Circuit Current Rating(I₃crw) 1000A Connection Data Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Green/Red Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Electrical Parameters	
Maximum Discharge Current (8/20μs)(I _{max}) 40kA Voltage Protection Level (U _p) 2.8kV Voltage Protection Level (U _p) @ 5kA 2.0kV Response Time ≤25ns Maximum Backup Fuse with branch wiring unnecessary Short-Circuit Current Rating(I _{scPv}) 1000A Connection Data Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Maximum Photovoltaic Voltage $(U_{\scriptscriptstyle {\mathbb{CPV}}})$	600V
Voltage Protection Level (U₀) 2.8kV Voltage Protection Level (U₀) @ 5kA 2.0kV Response Time ≤25ns Maximum Backup Fuse with branch wiring unnecessary Short-Circuit Current Rating(l₅cov) 1000A Connection Data Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Stripping Length 7mm	Nominal Discharge Current (8/20µs)(I _n)	20kA
Voltage Protection Level (U₀) @ 5kA 2.0kV Response Time ≤25ns Maximum Backup Fuse with branch wiring unnecessary Short-Circuit Current Rating(I₅cre) 1000A Connection Data Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Green/Red Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Maximum Discharge Current (8/20μs)(I _{max})	40kA
Response Time ≤25ns Maximum Backup Fuse with branch wiring unnecessary Short-Circuit Current Rating(I _{scrw}) 1000A Connection Data Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Green/Red Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Voltage Protection Level (U₂)	2.8kV
Maximum Backup Fuse with branch wiring unnecessary Short-Circuit Current Rating(I _{screv}) 1000A Connection Data Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Working Status/Fault Indication Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area Remote Signaling Contact Stripping Length 7mm	Voltage Protection Level (U₂) @ 5kA	2.0kV
Short-Circuit Current Rating(I _{scPV}) 1000A Connection Data Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Response Time	≤25ns
Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Maximum Backup Fuse with branch wiring	unnecessary
Maximum Wiring Area 25mm² Single Core Wire / Flexible Wire Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Short-Circuit Current Rating(I _{SCPV})	1000A
Minimum Wiring Area 1.5mm² Single Core Wire / Flexible Wire Stripping Length 10mm Screw Torque 3N.m Alarm Information Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Connection Data	
Stripping Length Screw Torque 3N.m Alarm Information Working Status/Fault Indication Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Screw Torque 3N.m Alarm Information Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Alarm Information Working Status/Fault Indication Green/Red Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Stripping Length	10mm
Working Status/Fault Indication Remote Signaling Contact Type Floating Changeover Contact Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Screw Torque	3N.m
Remote Signaling Contact Type Floating Changeover Contact Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Alarm Information	
Remote Signaling Contact Switching Capacity Maximum:(125Vac/1A),Minimum:(5V/1mA) Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Working Status/Fault Indication	Green/Red
Remote Signaling Contact Maximum Wiring Area 1.5mm Remote Signaling Contact Stripping Length 7mm	Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Stripping Length 7mm	Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)
	Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Screw Torque 0.2N.m	Remote Signaling Contact Stripping Length	7mm
	Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	54mm
Height	66mm
Material Specifications	
ousing Material	Thermoplastic Material, UL94 V-0 compliant.
nvironmental Conditions	
nstallation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
rotection Class	IP20
tandard Specifications	
Based on EN 50539-11:2013	Class: 2
Based on CGC/GF 026:2013	Class: 2
Number of Ports	1
Technology	MOV
nstallation	
nstallation Type	DIN Rail: 35mm



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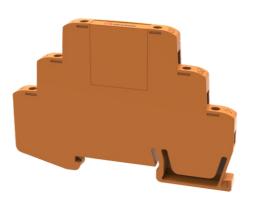


Measurement and Control system

Measurement and Control system

Surge Protector for Measurement and Control system

- Whole Module
- Low residual voltage
- Long service life
- Compact and ultra-thin design
- 35mm DIN rail moudle



Suitable for full-mode protection in high-frequency transmission systems, typically installed in lightning protection zone LPZ0₈-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-MCR-LF-24V
Order Number	30070000150
Electrical Parameters	
Nominal Voltage (U _N)	24V
Maximum Continuous DC Operating Voltage (U_{c})	33V
Maximum Continuous AC Operating Voltage (U_{c})	23.3V
Nominal Load Current (45°C)(I _L)	1.0A
D1 Line-to-Line Impulse discharge Current (10/350 μ s)(I $_{imp}$)	1kA
C2 Line-to-Line Nominal Discharge Current (8/20µs)(In)	5kA
C2 Total Nominal Discharge Current (8/20µs)(In)	10kA
Voltage Protection Level (I _n C2)(U _P)	65V(L-to-L),65V(L-to-PE)
Voltage Protection Level (1kV/µsC3)(Up)	47V(L-to-L),47V(L-to-PE)
Line Series Impedance	1.0ohm
Capacitance	≤25pF(L-to-L),≤25pF(L-to-PE)
L-PE Cutoff Frequency	100MHz
Connection Data	
Maximum Wiring Area	Flexible Conductor (Soft Conductor): 25mm²
Minimum Wiring Area	0.5mm²
Stripping Length	5-7mm
Screw Torque	0.3N.m

Dimensions	
Length	90mm
Vidth	7mm
leight	63mm
Material Specifications	
lousing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
nstallation Location	Indoor use only
Operating Temperature	-40°C+85°C
elative Humidity	≤95%(max 40°C)
ltitude	≤4km
otection Class	IP20
tandard Specifications	
esting Standards	IEC 61643-21 / EN 61643-21 / GB/T 18802.21
roduct Category	C2,D1
umber of Ports	2
chnology	GDT&TVS
stallation	
stallation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram
7	

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Measurement and Control system

Measurement and Control system

Surge Protector for Measurement and Control system

- Whole Module
- Low residual voltage
- Long service life
- Compact and ultra-thin design
- 35mm DIN rail moudle

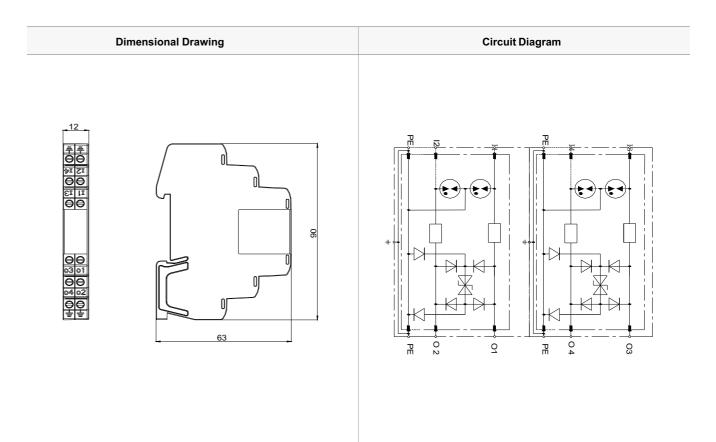


Suitable for full-mode protection in high-frequency transmission systems, typically installed in lightning protection zone LPZ0₈-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-MCR-LF-24V-2
Order Number	30070000151
Electrical Parameters	
Nominal Voltage (U_N)	24V
Maximum Continuous DC Operating Voltage (U _c)	33V
Maximum Continuous AC Operating Voltage (U_c)	23.3V
Nominal Load Current (45°C)(I _L)	1.0A
D1 Line-to-Line Impulse discharge Current (10/350 μ s)($I_{\mbox{\tiny imp}}$)	1kA
C2 Line-to-Line Nominal Discharge Current (8/20 μ s)(I $_n$)	5kA
C2 Total Nominal Discharge Current (8/20µs)(In)	10kA
Voltage Protection Level $(I_nC2)(U_p)$	65V(L-to-L),65V(L-to-PE)
Voltage Protection Level (1kV/ $\mu sC3$)(U $_{_{p}}$)	47V(L-to-L),47V(L-to-PE)
Line Series Impedance	1.0ohm
Capacitance	\leq 25pF(L-to-L), \leq 25pF(L-to-PE)
L-PE Cutoff Frequency	100MHz
Connection Data	
Maximum Wiring Area	Flexible Conductor (Soft Conductor): 25mm²
Minimum Wiring Area	0.5mm²
Stripping Length	5-7mm
Screw Torque	0.3N.m

Dimensions	
Length	90mm
Vidth	12mm
Height	63mm
Material Specifications	
lousing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
nstallation Location	Indoor use only
perating Temperature	-40°C+85°C
elative Humidity	≤95%(max 40°C)
titude	≤4km
otection Class	IP20
andard Specifications	
esting Standards	IEC 61643-21 / EN 61643-21 / GB/T 18802.21
roduct Category	C2,D1
umber of Ports	2
chnology	GDT&TVS
stallation	
stallation Type	DIN Rail: 35mm



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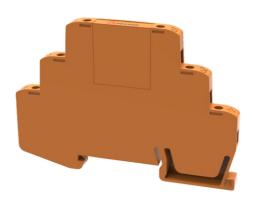


Measurement and Control system

Measurement and Control system

Surge Protector for Measurement and Control system

- Whole Module
- Low residual voltage
- Long service life
- Compact and ultra-thin design
- 35mm DIN rail moudle

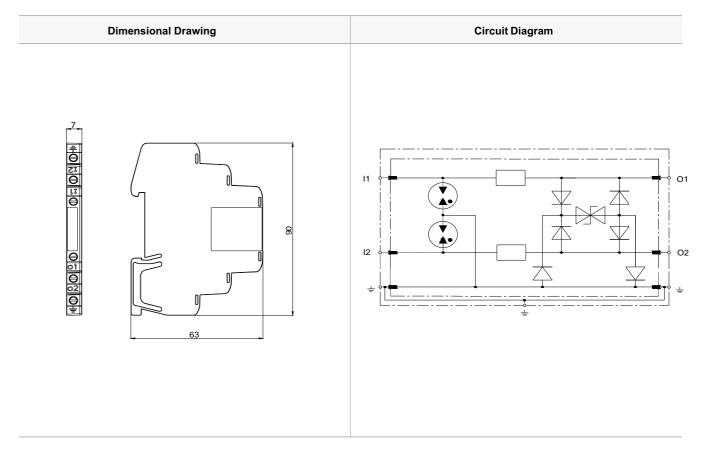


Suitable for full-mode protection in high-frequency transmission systems, typically installed in lightning protection zone LPZ0₈-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-MCR-HF-5V
Order Number	30070000153
Electrical Parameters	
Nominal Voltage (U _N)	5V
Maximum Continuous DC Operating Voltage (U _c)	6V
Maximum Continuous AC Operating Voltage (U _c)	4.2V
Nominal Load Current (45°C)(I _L)	1.0A
D1 Line-to-Line Impulse discharge Current (10/350μs)(I _{imp})	2kA
C2 Line-to-Line Nominal Discharge Current (8/20μs)(Iո)	10kA
C2 Total Nominal Discharge Current (8/20μs)(Iո)	20kA
/oltage Protection Level (I _n C2)(U _P)	25V(L-to-L),25V(L-to-PE)
/oltage Protection Level (1kV/μsC3)(U _p)	16V(L-to-L),16V(L-to-PE)
ine Series Impedance	1.0ohm
apacitance	≤25pF(L-to-L),≤25pF(L-to-PE)
-PE Cutoff Frequency	100MHz
Connection Data	
Maximum Wiring Area	Flexible Conductor (Soft Conductor): 25mm²
ninimum Wiring Area	0.5mm ²
Stripping Length	5-7mm
Screw Torque	0.3N.m

Dimensions	
ength	90mm
Vidth	7mm
Height	63mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
nstallation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
ltitude	≤4km
rotection Class	IP20
andard Specifications	
esting Standards	IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Product Category	C2,D1
lumber of Ports	2
echnology	GDT&TVS
nstallation	
stallation Type	DIN Rail: 35mm



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Communication system

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Communication system

Surge Protector for Communication system

- 8-Line Protection
- Low insertion loss
- Wide frequency range
- High current capacity
- Low residual voltage
- Easy installation

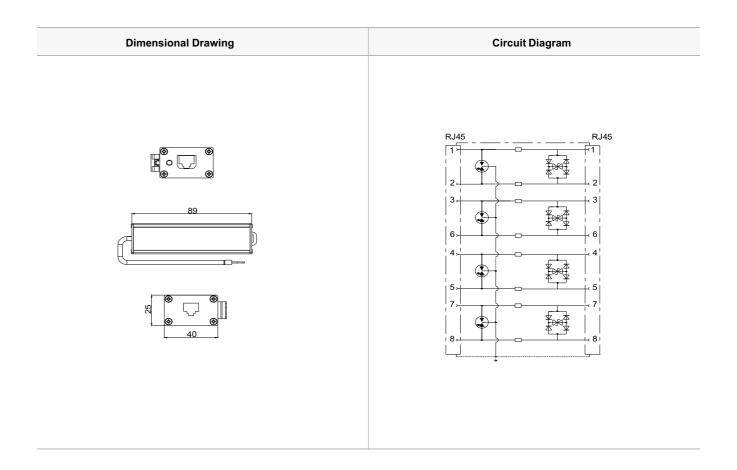


Suitable for the protection of comprehensive cabling systems or similar transmission systems, typically installed in lightning protection zone LPZ1-2 and subsequent zones.

RoHS,UL 94 V-0

Articles	DSPT-CAT-LAN-J45-4
Order Number	30070000154
Electrical Parameters	
Nominal Voltage $(U_{\scriptscriptstyle N})$	5V
Maximum Continuous DC Operating Voltage $(U_{\scriptscriptstyle C})$	5V
Maximum Continuous AC Operating Voltage (U _c)	3.5V
Nominal Load Current (45°C)(I _L)	100mA
C2 Line-to-Line Nominal Discharge Current (8/20µs)(In)	200A
C2 Line-to-Ground Nominal Discharge Current (8/20μs)(In)	2.5kA
C2 Line-to-Ground Total Nominal Discharge Current (8/20µs)(I _{Total})	10kA
Line-to-Line Voltage Protection Level InC2(U _P)	13V
Line-to-Ground Voltage Protection Level InC2(U _P)	600V
Line-to-Line Voltage Protection Level (1kV/µsC3)(U _P)	40V
Line-to-Ground Voltage Protection Level (1kV/ μ sC3)(U $_{\scriptscriptstyle P}$)	600V
Cutoff Frequency	250MHz/1000MHz
Insertion Loss	≤0.5dB
Line Series Impedance	3ohm
Protected Wire Pairs	1-2,3-6,4-5,7-8
Connection Data	
Connector Type	RJ45 (Female/Female)

Dimensions		
Length	86mm	
Width	25mm	
Height	25mm	
Material Specifications		
Housing Material	Metal Enclosure	
Environmental Conditions		
Installation Location	Indoor use only	
Operating Temperature	-40°C+85°C	
Relative Humidity	≤95%(max 40°C)	
Altitude	≤4km	
Protection Class	IP20	
Standard Specifications		
Testing Standards	IEC 61643-21 / EN 61643-21 / GB/T 18802.21	
Number of Ports	2	
Technology	GDT&TVS	
Installation		
Installation Type	DIN Rail: 35mm	



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Communication system

DEGSON

Communication system

Surge Protector for Communication system

- Reliable Temperature Control Protection Technology
- Capable of directly protecting terminal equipment
- Long service life
- Fault Indication
- Low residual voltage, providing excellent protection
- Compact size

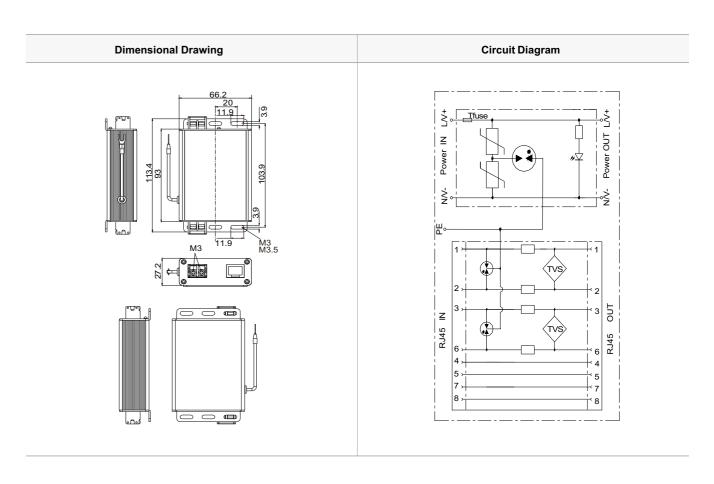


Suitable for comprehensive protection in network video surveillance systems, including power ports and RJ45 ports, typically installed in lightning protection zone LPZ1-2 and subsequent zones.

RoHS,UL 94 V-0

Articles	DSPT-CAT-VID-J45-2-30
Order Number	30070000155
Electrical Parameters	
Nomal Voltage (U _N)	24Vdc (Power) / 5Vdc (Network Signal)
Maximum Continuous Voltage (U _c)	30Vdc(Power)/5Vdc(Network Signal)
Nominal Discharge Current (8/20µs)(In)	5kA(Power)/200A(Network Signal)
Maximum Discharge Current (8/20μs)(I _{max})	10kA (Power) / 3kA (Network Signal L-PE)
Voltage Protection Level (Uր)	100V(Power)/13V(Network Signal)
Response Time	25ns(Power), 5ns(Network Signal)
Characteristic Impedance	5A(Max)(Power)
Maximum Backup Fuse with branch wiring	15A(Power)
Characteristic Impedance	75ohm(Network Signal)
Cutoff Frequency	1000MHz(Network Signal)
Line Series Impedance	3ohm(Network Signal)
Protected Wire Pairs	1-2,3-6Protection; 4-5,7-8Through(Network Signal)
Connection Data	
Maximum Wiring Area	4mm²(Power)
Minimum Wiring Area	0.5mm²(Power)
Stripping Length	7mm or M3-M5 Compression Terminal (Power)
Screw Torque	0.5N.m(Power)
Alarm Information	
Working Status/Fault Indication	Green Light On/Off

Dimensions	
Length	113mm
Width	66mm
Height	27mm
Material Specifications	
Housing Material	Metal Enclosure
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Testing Standards	IEC 61643-11 / EN 61643-11 / GB/T 18802.11 IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Number of Ports	2
Technology	MOV&GDT&TVS
nstallation	
nstallation Type	walled



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Communication system

Surge Protector for Communication system

- Reliable Temperature Control Protection Technology
- Capable of directly protecting terminal equipment
- Long service life
- Fault Indication
- Low residual voltage, providing excellent protection
- Compact size



☆ Suitable for comprehensive protection in network video surveillance systems, including power ports and RJ45 ports, typically installed in lightning protection zone LPZ1-2 and subsequent zones.

RoHS,UL 94 V-0

	,-
Articles	DSPT-CAT-VID-J45-2-385
Order Number	30070000156
Electrical Parameters	
Nomal Voltage $(U_{\scriptscriptstyle N})$	230Vdc(Power)/5Vdc(Network Signal)
Maximum Continuous Voltage (U _c)	385Vdc(Power)/5Vdc(Network Signal)
Nominal Discharge Current (8/20 μ s)(I,	5kA(Power)/200A(Network Signal)
Maximum Discharge Current (8/20 μ s)(I_{max})	10kA(Power)/2kA(Network SignalL-PE)
Voltage Protection Level ($U_{\scriptscriptstyle p}$)	1.5kV(Power)/13V(Network Signal)
Response Time	25ns(Power), 5ns(Network Signal)
Characteristic Impedance	5A(Max)(Power)
Maximum Backup Fuse with branch wiring	15A(Power)
Characteristic Impedance	75ohm(Network Signal)
Cutoff Frequency	1000MHz(Network Signal)
Line Series Impedance	3ohm(Network Signal)
Protected Wire Pairs	1-2,3-6Protection; 4-5,7-8Through(Network Signal)
Connection Data	
Maximum Wiring Area	4mm²(Power)
Minimum Wiring Area	0.5mm²(Power)
Stripping Length	7mm or M3-M5 Compression Terminal (Power)
Screw Torque	0.5N.m(Power)
Alarm Information	
Working Status/Fault Indication	Green Light On/Off



Communication system

Dimensions	
Length	113mm
Width	66mm
Height	27mm
Material Specifications	
Housing Material	Metal Enclosure
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Testing Standards	IEC 61643-11 / EN 61643-11 / GB/T 18802.11 IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Number of Ports	2
Technology	MOV&GDT&TVS
Installation	
Installation Type	walled

Dimensional Drawing Circuit Diagram

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Surge Protector for Coaxial System Signal

- Reliable high transmission rate
- Fast response
- Excellent structure ensures long service life
- High discharge capacity, maintenance-free
- Dual-port protection, easy installation

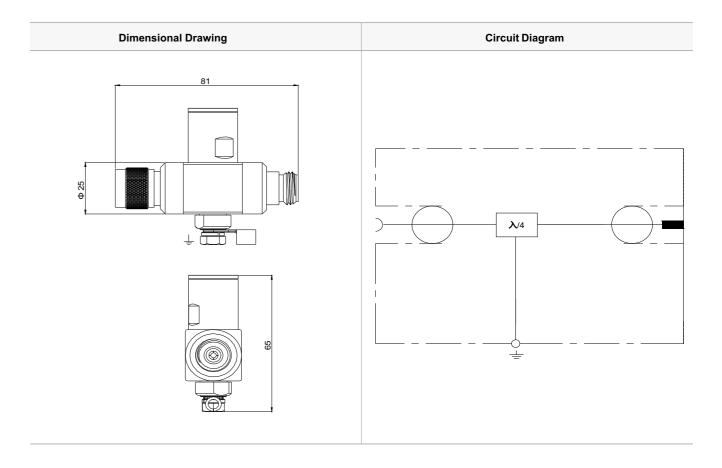


☆ Transmits in the specified frequency range of 0.8GHz to 2.5GHz, behaves as a short circuit during lightning strikes and low-frequency surges, discharging energy to the ground. Widely used for protection in DAS and wireless LAN, typically installed in lightning protection zone LPZO_A-1 and subsequent zones.

RoHS,CE

Articles	DSPT-COX-N-2.5GHz	
Order Number	30070000157	
Electrical Parameters		
Maximum Continuous Operating Voltage (U _c)	OV	
Nominal Load Current (I _L)	0A	
Maximum Transmitted Power	2000W	
Nominal Discharge Current (8/20µs)(In)	80kA	
Impulse Discharge Current (10/350µs)(I _{imp})	40kA	
Voltage Protection Level (U _P)	180V	
Frequency Range	0.8GHz~2.5GHz	
Insertion Loss	≤0.1dB	
VSWR (Voltage Standing Wave Ratio)	≤1.1	
Impedance	50ohms	
Connection Data		
Connector Type	N (Female/Male)	

Dimensions		
Length	81mm	
Width	65mm	
Height	25mm	
Material Specifications		
PIN Material	Gold-plated Brass	
Housing Material	Nickel-plated Brass	
Environmental Conditions		
Installation Location	Indoor/Outdoor	
Operating Temperature	-40°C+85°C	
Relative Humidity	≤95%(No condensation)	
Altitude	≤4km	
Protection Class	IP65	
Standard Specifications		
Standard Specifications	IEC 61643-21 / EN 61643-21 / GB/T 18802.21	
Technology	1/4λ	
Installation		
Installation Type	1	



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Surge Protector for Coaxial System Signal

- Reliable high transmission rate
- Fast response
- Excellent structure ensures long service life
- High discharge capacity, maintenance-free
- Dual-port protection, easy installation

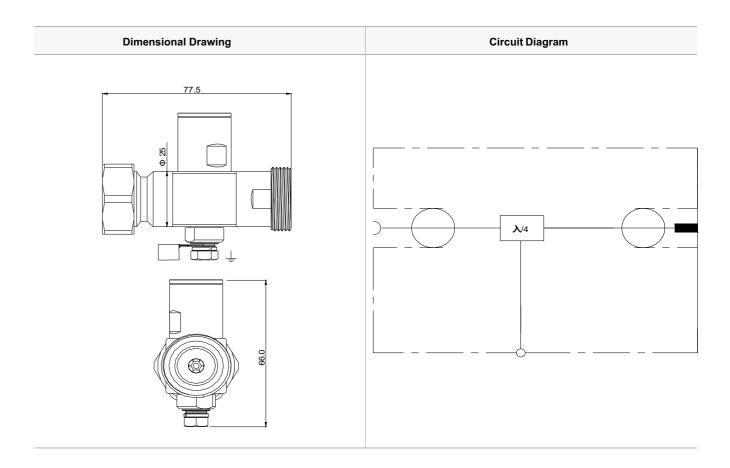


↑ Transmits in the specified frequency range of 0.8GHz to 2.5GHz, behaves as a short circuit during lightning strikes and low-frequency surges, discharging energy to the ground. Widely used for protection in DAS and wireless LAN, typically installed in lightning protection zone LPZO₄-1 and subsequent zones.

RoHS,CE

Articles	DSPT-COX-7/16-2.5GHz	
Order Number	30070000158	
Electrical Parameters		
Maximum Continuous Operating Voltage (U_{c})	0V	
Nominal Load Current (I _L)	0A	
Maximum Transmitted Power	2000W	
Nominal Discharge Current (8/20μs)(Iո)	80kA	
Impulse Discharge Current (10/350µs)(I _{imp})	40kA	
Voltage Protection Level (U _P)	180V	
Frequency Range	0.8GHz~2.5GHz	
Insertion Loss	≤0.15dB	
VSWR (Voltage Standing Wave Ratio)	≤1.15	
Impedance	50ohms	
Connection Data		
Connector Type	7/16(Female/Male)	

Dimensions		
Length	77.5mm	
Width	66mm	
Height	25mm	
Material Specifications		
PIN Material	Gold-plated Brass	
Housing Material	Nickel-plated Brass	
Environmental Conditions		
Installation Location	Indoor/Outdoor	
Operating Temperature	-40°C+85°C	
Relative Humidity	≤95%(max 40°C)	
Altitude	≤4km	
Protection Class	IP65	
Standard Specifications		
Standard Specifications	IEC 61643-21 / EN 61643-21 / GB/T 18802.21	
Technology	1/4λ	
Installation		
Installation Type	/	



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ENVIRONMENTAL POLICY

DEGSON realizes system regulation without lead in 2005 and has been granted ISO14001 in 2006. All the products conform to the European ROHS requirement.

DEGSON realizes the importance to protect environment resources, selfconsciously meets environment protection requirements for products and regardsit as the responsibility. Thus, we have made the following environment strategic policy:

- 1. To meet customers'demands and obey the national and local laws and regulations as well as other environmental protection requirements.
- 2. Take environmental protection as one criterion for continuing development of our company. Insist on fully development of quality, benefit and environ mental protection.
- 3. Fully considering the factors which will influence the environment in the processes of product development, manufacturing, material usage and waste processing, establish management system of waste in order to improve the environment of our company.
- 4. To increase the employees' consciousness of environmental protection through training and to realize the continuing improvement of environment management system and the ability of environmental protection.
- To make full use of resources and to decrease consumption of material in order to save energy.
- 6. To promise to our partners and society that we will make contribution to environment protection. There is only one Earth for our humanity.
- 7. To strive for making conservation-oriented and environment-friendly products through continuous innovation and developing new materials and technology.



