

LIGHTNING PROTECTOR UNIT (LPU)



Your Automation Partner

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LP-40C/1P/2P/3P-PV

LP-20C/3P-PV Series

Measuring Principle

LP-20C/3P-PV series photovoltaic DC surge protective devices are applied to solar photovoltaic power generation system or other DC power system, providing protection against overvoltage arising from lightning. They can work normally at high altitude.



Feature

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- Plug in module and separate base design
 - Built in temperature control and circuit breaking technology
- Green light indicates normal; Red light indicates broken.

Application

Photovoltaic combiner box & photovoltaic power supply box

Main Technical Data

Model	LP-20C/3P-PV800	LP-20C/3P-PV1000	LP-20C/3P-PV1200	
Maximum continuous operating voltage Uc	800V	1000V	1200V	
Voltage protection level Up	<3.6kV	<3.6kV	<4.0kV	
Limit voltage Ures(5kA)	<2.8kV <2.8kV <3.2kV			
Nominal discharge current In (8/20µs)	20kA			
Maximum discharge current Imax (8/20µs)	40kA			
Housing material	Flame retardant reinforced nylon (UL94V-0)			
Recommended grounding conductor cross-sectional area	16mm2 multi-strand soft wire			
Maximum backup protection fuse	80 AgL			
Clearance and creep age distance	>25mm			
Normal operating temperature	-40°C ~ 80°C			









LP-40/C/3P

Dimension



LP-50A

Measuring Principle

LP-50A are applied at the low voltage side of transformer with rated working voltage 230/400V or zone between LPZO and LPZ1, which can protect CLASS I against overvoltage arising from the lightning or surge. This series products are not applied to the system with the expected short-circuit current beyond rated breaking follow current. The fuse must be connected to the front side of the production series.





Feature

- Large current capacity, low residual voltage, totally enclosed structure, no arc escape
- Build in multi-gap, continuous voltage, strong ability of off follow-current.
- Many protection model (L-N, L-PE, N-PE) & combination (2P,3+NPE, 4P) apply to various power network.

Application

Class I

Main Technical Data

Model	LP-50A
Rated working voltage	230/400V
Max continuous operating	320V
Voltage protection level up kV	< 2.0kV
Impulsive discharge current Limp (10/350µs)kA	25kA
Housing material	Flame-retardant Reinforced Nylon (UL 94V-0)
Response time	100ns
Recommended grounding conductor	16mm ² Multi-Strand Flexible Wire
Combination mode	2P, 3P, 4P, 3P+NPE
Insulation resistance	>5M Ω
Max Intensity of backup fuse (If mains >250A)	250AgL



LP-50A/4P



LP-50A/3P+NPE

LP-75B

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Measuring Principle

Lightning Protector Unit model LP-75B is design for power class B. It provides protection against the overvoltage from lightning strike to the power class B or miss-operation.

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1P:36,2P:72,3P:108,4P:144

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Feature

- Large current capacity, low residual voltage.
- Build-in temperature control and circuit breaking technology, high security performance.
- Lighting off in notice window indicates normal, red indicates broken, clear and easy distinguish.
 - Optional telesignalisation monitoring interface, can realize remote monitoring.
- Realizable wiring to reduce conductor resistance.
- Assembled combination modules such as 1P+N, 2P, 3P+N, 4P etc, applied for various electric network system.

Application

- Building low voltage main distribution box
- Power Class B

Main Technical Data

Model	LP-75B
Max continuous operating	385V
Voltage protection level up kV	< 1.5kV
Nominal discharge current(8/20µs)kA	80
Maximum discharge current(8/20µs)kA	120
Impulsive discharge current Limp (10/350µs)kA	10kA
Housing material	Flame-retardant Reinforced Nylon (UL 94V-0)
Response time	<25ns
Recommended grounding conductor	16mm ² Multi-Strand Flexible Wire
Combination mode	1P, 2P, 3P, 4P, 1P+NPE, 3P+NPE
Max intensity of backup fuse	160AgL

Wiring Diagram





LP-75B

LP-40B+C

Measuring Principle

LP-40B+C series are applied to equipotential bonding of the building low voltage main distribution boxes, providing protection against the overvoltage arrising from lightning strike to the power class B & C or





1P:36,2P:72,3P:108,4P:144

Feature

- Unnecessary to consider load current, plug & play design live wire replacement, easy maintenance.
- Built-in temperature control and circuit breaking technology, high security performance.
- Green light indicates normal, red light indicates broken and need to replace, clear and easy distinguish.
- Optional telesignalisation monitoring interface, can realize remote monitoring.
- Function of lightning protection backup, half of protection ability is available when either red light on.
- Assembled combination modules such as 1P+N, 2P, 3P+N, 4P, etc. Applied to various electric networks system.

Application

Building low voltage main distribution box. Power Class B & C

Main Technical Data

Model		LP-40B+C	
Maximum continuous operating voltage Uc ~ V	275	385	690
Voltage protection level up kV	< 2.2	< 2.4	< 3.0
Voltage limiting Ures(at 5kA) kV	< 1.0 < 1.2 < 2.0		
Nominal discharge current (8/20µs)kA		40	
Maximum discharge current(8/20µs)kA	80		
Impulsive discharge current Imp(10/350) KA	1.5		
Housing material	Flame-retardant reinforced nylon(UL94V-0)		
Response time ns	< 25ns		
Recommended grounding conductor cross-sectional area	16mm ² multi-strand flexible wire		
Maximum strength of back-up protection fuse	125 AgL/63A		

Wiring Diagram





LP-40B+C/3P

LP-40B+C/4P

LP-20C

Measuring Principle

Lightning Protector Unit model LP-20C is design for power class C. It provides protection against the overvoltage from lightning strike to the power class C or miss-operation.





Feature

- Plug & play design, live wire replacement
- Built-in temperature control & circuit breaker technology, high security performance.
- Green light indicates normal; red line indicates broken.
- Optional tele-signalisation monitoring interface, can realize remote monitoring
- Assembly combination modules such as 1P+N, 2P, 3P+N, 4P & etc.

Application

- Apply to power class C
- Building low voltage distribution box

Main Technical Data

Model		J	LP-20C	
Maximum continuous operating voltage Uc ~V	75	275	385	690
Voltage protection level up kV	< 0.8	< 1.5	< 1.8	< 2.7
Voltage limiting Ures(at 5kA) kV	< 0.4	< 1.0	< 1.3	< 2.0
Nominal discharge current (8/20µs)kA			20	
Maximum discharge current(8/20µs)kA	40			
Housing material	Flame-r	etardant re	inforced nyl	on(UL94V-0)
Recommended grounding conductor	10mm ² multi-strand flexible wire			
cross-sectional area	Tommin multi-strand nextore wite			
Combination mode	1P, 2P, 3P, 4P, 1P+NPE, 3P+NPE			
Maximum strength of back-up protection fuse			80 AgL	

Wiring Diagram





LP-20C/2P

LP-20C/4P

LP-COM/A

Measuring Principle

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LP-COM/A series protective devices for AC/DC power are applies to the front end of power supply equipment of different voltage lines such as computer system, modem, signal control, etc. Providing protection against overvoltage arising from lighting strike or miss-operation



Feature

- Large flow capacity, low residual voltage, no leakage current to ground
- Two connection modes of series and parallel, wide application range
- Built-in double lightning protection technology, high safety performance
- Adopt Brand lightning protection components, reliable quality and stable performance
- 32mm G-rail and 35mm U-rail universal mounting method, strong applicability.

Application

• Apply for AC/DC power supply system

Main Technical Data

Model	LP-COM/A-5	LP-COM/A-12	LP-COM/A-24	LP-COM/A-48	LP- COM/A-110	LP-COM/A-230
Rated working voltage Ue~V	5	12	24	48	110	230
Maximum continuous operating voltage Uc ~ V	8	18	36	60	150	320
Voltage protection level up	<400 kV	<400 kV	<400 kV	<800 kV	<1000 kV	<1500 kV
Nominal discharge current in (8/20us)kA				5kA		
Maximum discharge current in (8/20us)kA		10kA				
Rated load current	10A (in serial) / 300A (in Parallel)					
Connection method	Wiring Terminals					
Leakage current		None				
Response time ns	25ns					
Level of protection	IP20					
Housing material	Enhanced flame-retardant Reinforced Nylon (UL 94V-0)					
Installation mode	35mm standard DIN rail installation					
Recommended grounding conductor cross-sectional area	3mm ² Multi Strand Flexible Wire					
Temperature range	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$					
Relative humidity	\leq 95% (Non-condensation)					

Wiring Diagram



Serial-connection mode can be applied to the power system with the rated load current not beyond 10A



Parallel connection mode can be applied to the power system with the rated load current 10A

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LP-C/RJ45/S

Measuring Principle

Lightning Protector Unit model LP-C/RJ45 is connected in series in CAT6 network cables, compatible with 10/100/1000/10000 (10G) Base-T Ethernet systems, protecting the equipment which are connected to the network (e.g. computers, routers, PoE devices, etc.) against damages by over-voltage surge.





Feature

- Finger sized, easy to carry
- Plug and play, easy to use
- Low cost of repair and replacement
- 10/100/1000Mbps LAN adaptive, superior transmission performance
- Multi-level fine protection The circuit adopts the latest high-speed surge protection device, which has fast reflection speed and low output residual voltage

Application

 Network data system such as modems, servers, workstations and computer networks.

Main Technical Data

Model	LP-C/RJ45/S
Rated operating voltage Ue	1.4V
Max. continuous operating voltage Uc	3V
Wire to line nominal discharge current (In @8/20µs)	100A
Line to ground nominal discharge current (In @8/20µs)	500A
Voltage protection level (Up @line-line)	<45V
Voltage protection level (Up @line-GND/PE)	<300V
Transmission rate fg	100MHz
Protection line	1,2,3,6 lines
Insertion loss	≤0.5dB
Line to line response time Ta	≤lns
Line to ground response time Ta	≤100ns
Normal operating temperature	-40°C ~ 70°C





LP-C/RJ45

Measuring Principle

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Lightning Protector Unit model LP-C/RJ45 is connected in series in CAT6 network cables, compatible with 10/100/1000/10000 (10G) Base-T Ethernet systems, protecting the equipment which are connected to the network (e.g. computers, routers, PoE devices, etc.) against damages by over-voltage surge.

51mm



Feature

- Adopt 35mm standard DIN rail, convenient for installation.
- Multi-protection technology, strong protection and high reliability
- Built-in 4mm lifting grounding terminal, strong wiring capability and more reliable grounding
- Compact and exquisite, flexible, convenient and adaptable

Application

- Data communication system
- Computer network
- Ethernet system
- PoE system
- PoE system

Main	Tec	hnical	Data

24mm

Model	LP-C/RJ45
Rated operating voltage Ue	5V
Max. continuous operating voltage Uc	8V
Wire to line nominal discharge current (In @8/20µs)	100A
Line to ground nominal discharge current (In @8/20µs)	2.5kA
Voltage protection level (Up @line-line)	<45V
Voltage protection level (Up @line-GND/PE)	< 500 V
Connection method	RJ45
Transmission rate fg	100MHz
Insertion loss	≤0.5dB
Housing Material	Flame-retardant Reinforced Nylon (UL 94V-0)
Installation method	35mm standard rail mounting
Recommended grounding conductor cross-sectional area	3mm ² multi-strand soft wire
Normal operating temperature	$-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$

Wiring Diagram



78mm 75mm

LP-C/RJ11

Measuring Principle

Lightning Protector Unit model LP-C/RJ11 DIN rail device provides protection against overvoltage arising from lightning strike to the data & control.





Feature

- Adopt 35mm standard DIN rail, convenient for installation.
- Multi-protection technology, strong protection and high reliability
- Built-in 4mm lifting grounding terminal, strong wiring capability and more reliable grounding
- Compact and exquisite, flexible, convenient and adaptable

Application

- Computer network
- Telephone system
- Control system

Main Technical Data	
Model	LP-C/RJ11
Rated operating voltage Ue	110V
Max. continuous operating voltage Uc	130V
Wire to line nominal discharge current (In @8/20µs)	100A
Line to ground nominal discharge current (In @8/20µs)	2.5kA
Voltage protection level (Up @line-line)	<350V
Voltage protection level (Up @line-GND/PE)	<750V
Connection method	RJ11
Transmission rate fg	40MHz
Insertion loss	≤0.5dB
Housing material	Flame-retardant reinforced nylon (UL 94V-0)
Installation method	35mm standard rail mounting
Recommended grounding conductor cross-sectional area	3mm ² multi-strand soft wire
Normal operating temperature	$-40^{\circ}\mathrm{C} \sim 80^{\circ}\mathrm{C}$



LP-C/BNC

Measuring Principle

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Lightning Protector Unit model LP-C/BNC DIN rail device provide protection against overvoltage arising from lightning strike to the CCTV.



Feature

- Adopt 35mm standard DIN rail, convenient for installation.
- Multi-protection technology, strong protection and high reliability
- Built-in 4mm lifting grounding terminal, strong wiring capability and more reliable grounding
- Compact and exquisite, flexible, convenient and adaptable

Application

- Monitoring video system
- CCTV

Main Technical Data

Model	LP-C/BNC
Rated operating voltage Ue	12V
Max. continuous operating voltage Uc	18V
Wire to line nominal Discharge Current (In @8/20µs)	5kA
Line to ground nominal Discharge Current (In @8/20µs)	5kA
Voltage protection level (Up @line-line)	<80V
Voltage protection level (Up @line-GND/PE)	<750V
Connection method	BNC
Transmission rate fg	16MHz
Insertion loss	≤0.5dB
Housing Material	Flame-retardant Reinforced Nylon (UL 94V-0)
Installation method	35mm standard rail mounting
Recommended grounding conductor cross-sectional area	3mm ² multi-strand soft wire
Normal operating temperature	$-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$

Wiring Diagram



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LP-C/TV

Measuring Principle

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Lightning Protector Unit model LP-C/TV is rail type F head video signal lightning protector device.



Feature

- Adopt 35mm standard DIN rail, convenient for installation.
- Multi-protection technology, strong protection and high reliability
- Built-in 4mm lifting grounding terminal, strong wiring capability and more reliable grounding
- Compact and exquisite, flexible, convenient and adaptable

Application

• F head video

Main Technical Data

Model	LP-C/TV
Rated operating voltage Ue	24V
Max. continuous operating voltage Uc	36V
Wire to line nominal discharge current (In @8/20µs)	5A
Line to ground nominal discharge current (In @8/20µs)	5kA
Voltage protection level (Up @line-line)	<80V
Voltage protection level (Up @line-GND/PE)	<750V
Connection method	F head
Transmission rate fg	16MHz
Insertion loss	≤0.5dB
Housing material	Flame-retardant reinforced nylon (UL 94V-0)
Installation method	35mm standard rail mounting
Recommended grounding conductor cross-sectional area	3mm ² multi-strand soft wire
Normal operating temperature	-40°C ~ 80°C



LP-C/TER

Measuring Principle

Lightning Protector Unit model LP-C/TER signal lightning arresters are suitable for lightning protection of control signals and twisted-pair data lines, which can prevent various dialing equipment from permanent damage or transient interruption arising from inductive overvoltage, over current and other transient surge voltage caused by surge and industrial noise, etc.





Feature

- Adopt 35mm standard DIN rail, convenient for installation.
- Multi-protection technology, strong protection and high reliability
- Built-in 4mm lifting grounding terminal, strong wiring capability and more reliable grounding
- Compact and exquisite, flexible, convenient and adaptable

Application

- 4-20mA control signal
- Twisted -pair data line (RS232,RS422,RS485)

Main Technical Data

Model	LP-C/TER-5	LP-C/TER-12	LP-C/TER-24	LP-C/TER-48	
Rated operating voltage Ue	5V 12V 24V 48V				
Max. continuous operating voltage Uc	8V 18V 30V 60V				
Voltage protection level (Up @line-line)	<80V <80V <80V <150V				
Voltage protection level (Up @line-GND/PE)	<100V	<100V	<100V	<200V	
Wire to line nominal discharge current		51	Δ		
(In @8/20µs)		JK	A		
Line to ground nominal discharge current		51	Δ		
(In @8/20µs)		JK	Α		
Connection method	BNC				
Transmission rate fg	16MHz				
Insertion loss	≤0.5dB				
Housing Material	Flame-retardant Reinforced Nylon (UL 94V-0)				
Installation method	35mm standard rail mounting				
Recommended grounding conductor cross-		3mm ² multi et	rand soft wire		
sectional area	3mm ² multi-strand soft wire				
Normal operating temperature	-40°C ~ 80°C				



Measuring Principle

Lightning Protector Unit model LP-V is design especially for automation process control Instruments system use. It uses to protect both side of the equipment. The built in arrestor can also be widely used for transmission system by current loops. It absorbs surge only without affecting instrumentation signal and





Feature

- Build in earthing terminal, strong wiring ability
- Modular design with DIN mount
- High current capacity, low output residual voltage

Application

- Automation process control instruments system
- 2-wire system

Main Technical Date

Model	LP-V5 LP-V12 LP-V24 LP-V36				
Rated working voltage Un V	5 12 24 36				
Max. continuous voltage Uc V	8 18 36 54				
Voltage protection level up V(1kV/µs)	<50 <50 <80 <80				
Max discharge current Imax (8/20µs) kA	20				
Connection method	Terminal blocks				
Transmission rate Vs(bit/s)	2M				
Insertion loss dB (at 2M)	≤0.3				
Enclosure material	Flame retardant nylon (flame retardancy:V0)			ncy:V0)	
Installation method	35mm standard DIN rail mounting			ng	
Cross-sectional area		2.5mm ² stra	nded/flexible		

*** For effective protection earth-link resistance must be below 5 ohm.



LP-C/RJ45/L

Measuring Principle

Lightning Protector Unit model LP-C/RJ45/L is

Aluminum shell RJ45 network signal lightning protector device.



Feature





LP-C/RI45/L

LP-C/RI45/LK

• Aluminum profile shell, beautiful and durable, good shielding effect

• Standard signal connector, easy to use, reliable connection

• Multi-level fine protection circuit, using the latest highspeed surge protection device, reflecting fast Low output residual voltage and superior transmission performance

Application

- Data communication system
- Modems
- Server
- Hubs in computer networks

Main Technical Data

Model	LP-C/RJ45/L	LP-C/RJ45/LK	
Rated operating voltage Ue	5V		
Max. continuous operating voltage Uc		8V	
Nominal discharge current (In @8/20µs)	2.5kA		
Voltage protection level (Up @line-line)	<45V		
Voltage protection level (Up @line-GND/PE)	<500V		
Transmission rate fg	100MHz	1000MHz	
Protection Line	1,2,3,6 lines	1,2,3,4,5,6,7,8 lines	
Insertion loss	≤0.5dB		
Line to line response time Ta	≤lns		
Line to ground response time Ta	≤	100ns	
Normal operating temperature	-40°C	C ~ 70°C	

Wiring Diagram

LP-C/RJ45/L

LP-C/RJ45/LK





LP-C/RJ11/L

Measuring Principle

Lightning Protector Unit model LP-C/RJ11/L is aluminum shell RJ11 signal lightning protection device. It mainly prevents the damage caused by the induced overvoltage or other instantaneous surge voltage generated by lightning or industrial noise to the above system or equipment.





Feature

- Aluminum profile shell, beautiful and durable, good shielding effect
- Standard signal connector, easy to use, reliable connection
- Multi-level fine protection circuit, using the latest highspeed surge protection device, reflecting fast Low output residual voltage and superior transmission performance

Application

- Telephone/Fax
- Program controlled computer room
- Control system

Main Technical Data

Model	LP-C/RJ11/L
Rated operating voltage Ue	110V
Max. continuous operating voltage Uc	130V
Nominal discharge current (In @8/20µs)	2.5kA
Voltage protection level (Up @line-line)	<80V
Voltage protection level (Up @line-GND/PE)	<750V
Transmission rate fg	40MHz
Protection line	3,4 lines
Insertion loss	≤0.5dB
Line to line response time Ta	≤lns
Line to ground response time Ta	≤100ns
Normal operating temperature	$-40^{\circ}C \sim 80^{\circ}C$



LP-C/BNC/L

Measuring Principle

Lightning Protector Unit model LP-C/BNC/L is aluminum shell BNC video signal lightning protector device. It mainly prevents the damage caused by the induced overvoltage or other instantaneous surge voltage generated by lightning or industrial noise to the above system or equipment.

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Feature

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- Aluminum profile shell, beautiful and durable, good shielding effect
- Standard signal connector, easy to use, reliable connection
- Multi-level fine protection circuit, using the latest highspeed surge protection device, reflecting fast Low output residual voltage and superior transmission performance

Application

- Backbone thin cables, thick cables
- Network lines
- CATV
- Video surveillance equipment
- Satellite TV coaxial transmission equipment

Main Technical Data

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Model	LP-C/BNC/L
Rated operating voltage Ue	12V
Max. continuous operating voltage Uc	18V
Nominal discharge current (In @8/20µs)	5kA
Voltage protection level (Up @line-line)	<80V
Voltage protection level (Up @line-GND/PE)	<750V
Transmission rate fg	16MHz
Protection line	BNC coaxial cable
Insertion loss	≤0.5dB
Line to line response time Ta	≤lns
Line to ground response time Ta	≤100ns
Normal operating temperature	$-40^{\circ}\mathrm{C} \sim 80^{\circ}\mathrm{C}$

Wiring Diagram



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LP-TK

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WWW

Measuring Principle

Lightning Protector Unit model LP-TK series are applied to antenna feeder equipment and transceiver system. It can prevent electronic system device from damage arising from surge radio wave impulse.

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Feature

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- Large flow rate and low residual voltage
- Frequency bandwidth, small VSWR, low insertion loss
 - Optional with a variety of connectors, strong adaptability
- Standard interface, easy to install and replace
- Anti-riot design, safe and reliable

Application

- Mobile communication base station
- Wireless local telephone
- Third generation mobile communication TD-SCDMA
- GPRS global positioning instrument
- MMDS microwave spread spectrum communication
- Satellite and microwave communication transceiver station

Main Technical Data

Model	LP-TK
Frequency range	0 ~ 2.
Rated operating voltage Ue	12V
Max. continuous operating voltage Uc	18V
Nominal discharge current (In @8/20µs)	10kA
Voltage protection level	<1kV
Impulse current limp (10/350)	2.5kA
Transmission rate fg	40MHz
Connection method	Tandem
Insertion loss	≤0.5dB
Response time Ta	≤100ns
Standing wave ratio	≤1.2
Normal operating temperature	$-40^{\circ}\mathrm{C} \sim 70^{\circ}\mathrm{C}$



LP-JS

Measuring Principle

LP-JS lightning counter can detect and record the number of lightning arrester discharges, that is, record the number of lightning current surges to a certain extent, to facilitate users to mine lightning in specific areas. Statistics and analysis are made. Can be used with a variety of lightning protection devices, can also be used as a matching product for lightning protection boxes and other equipment.



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Feature

- Wide counting range, wide application range
- Accurate counting, no miss-operation
- 2 digits display, clear and easy to identify
- After power off, data will never be lost
- Cartridge installation, easy installation & replacement
- Adopting single-chip technology, advanced structure. reliable

Application

• Lightning counter

Main Technical Data

Model	LP-JS
Rated operating voltage Ue	220VAC
Effective operating current	≥1kA
Number of counts	0-99
Sampling mode	Coil induction
Housing material	ABS
Installation form	35mm standard rail mounting
Wiring form	Terminals
Normal operating temperature	$-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$



LP-CZ/06

Measuring Principle

Lightning Protector Unit model LP-CZ/06 socket type integrated lightning protection device has power supply and signal lightning protection function, wherein the power supply part is suitable for AC 250V and below, and the rated current does not exceed 10A front end of various terminal electrical equipment; signal part can be freely combined with signal lightning protection module, installed in the front end of computer network, telephone, control line and other information equipment, the product can simultaneously strike or operate the power line and signal line The resulting overvoltage is protected.

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Feature

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- Large flow rate and low residual voltage
- Standard multi-function socket design, easy to install and use
- Multi-protection technology, strong protection and high reliability
- Built-in thermal fuse, safe and reliable
- Red lightning protection indicator light is on, indicating lightning protection is normal, and the extinction means lightning protection failure.

Application

- Power supply
- RJ11, RJ45, BNC, RS485, TV

Main Technical Data

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Model	LP-CZ/06
Rated working voltage Un V	220
Max. continuous operating voltage Uc V	320
Voltage protection level Up V	<1.5
Rated working current le A	10
Nominal discharge current ln (8/20µs) kA	10
Max. discharge current lmax (8/20µs) kA	20
Connection mode	Standard GB three position socket
Response time nS	<25
Enclosure material	Enhanced flame retardant nylon (flame retardancy: V0)
Method of installation	35mm standard DIN rail installation
Cross sectional area	≥2.5mm ² stranded/flexible



LP-C/DB9

Measuring Principle

Lightning Protector Unit model LP-C/DB9 series lightning protection device is suitable for lightning protection with DB9 interface equipment. It can prevent induced overvoltage, over current and other transient surge voltages caused by lightning or industrial noise or damage caused by permanent damage or sudden interruption of equipment.





Feature

- Easy installation and replacement, standard DB9 connector
- Fast speed, low output residual voltage and superior transmission performance.
- Small size, exquisite and adaptable

Application

• DB9 interface equipment

Main Technical Data

Model	LP-C/DB9-5	LP-C/DB9-12	
Typical application	RS-232	RS-485	
Rated operating voltage Ue	5V	12V	
Max. continuous operating voltage Uc	8V	18V	
Voltage protection level Up	<801	V	
Nominal discharge current ln (8/20µs)	100A		
Shock voltage (10/700 µs)	1.5kV		
Transmission rate fg	45MHz		
Protection line	BNC coaxial cable		
Insertion loss	≤0.5dB		
Housing material	ABS		
Normal operating temperature	-40°C ~	80°C	



LP-TEST108B

246

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Measuring Principle

Lightning Protector Unit model LP-TEST 108 is to test the leakage current of MOV, break-over voltage and breakdown voltage of MOV, GDT, TVS & etc.





Feature

- Small volume, convenient carrying.
- Quick response and accurate.
- LCD display, large font, clear and easy to identify.
- Battery and external power supply dual-use, easy to use.
- Intelligent testing with one-key, east to operate

Application

• Tester of leakage current

Main Technical Date

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Model	LP-TEST 108B			
Test method	Automatic			
Power		DC 9V/ AA size batteries (4pcs)		
	Leakage current	Voltage	Resolution	Accuracy
Reference voltage	Leakage current 0.1µA accuracy	Voltage 0-1000V	Resolution 1V	Accuracy 3%

Instruction



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