



## High Voltage DC/AC Surge Protective Device for Power System Lightning Protection Needs

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Golden Electric /OEM
- Certification: ISO 9001, ISO 9000, ISO 14001, ISO 14000, ISO 20000, OHSAS/ OHSMS 18001, IATF16949
- Minimum Order Quantity: 1
- Packaging Details: Carton/Pallet
- Delivery Time: Peak Season Lead Time: more than 12 months Off Season Lead Time: within 15 workdays
- Payment Terms: LC, T/T, PayPal, Western Union
- Supply Ability: 5000/Month



### Product Specification

- Shape: Module
- Material: Nylon
- Brand: Golden Or Natural Or Customer Brand
- Model No.: E-15
- Voltage: DC 500V, 550V, 800V, DC1000V(3p) 1200V, 1500V
- I<sub>max</sub>(K<sub>a</sub>): 40ka
- U<sub>s</sub>(K<sub>a</sub>): 20ka
- Series: AC SPD, Surge Protector, Surge Protective Device
- Where To Use: Solar PV System
- Altitude: 2000
- Indication: Green(Good) Red(Replace)
- Class Test: II
- Terminal Screwa: M5
- Transport Package: Standard Export Carton



### More Images



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## Product Description

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The GD-M series Surge Protection are designed to protect against lightning surge voltages in photovoltaic power supply networks.

These units must be installed in parallel on the DC networks to be protected and provide common and differential modes protection. The GD-M series is available for the main operating voltages in photovoltaic: 1000 Vdc.

The use of GD-M series Surge Protection is recommended at both ends of the DC power supply line (solar panel side and inverter/converter side),

Especially if the line routing is external and long. The electrical diagram of the GD-M series is based on high energy PV equipped with specific thermal disconnectors and related failure indicators.

The SUP series is made with plug-in modules to allow a fast and easy maintenance in case of failure (disconnection from the DC network).



### Product Parameters

#### SUP2-PV series surge protector

PV DC specific (LEC 6614-1/EN 61643-11)

Pole

Electrical Parameter

Classifical test

Uoc max (V DC)

Uc (V DC)

In(8/20)us (KA)

Imax(8/20)us (KA)

Up (KV)

Remote control and indication

Indication window

Plug-in module

Remote signal contact

Remote signal contact

Max working volt  
Max working amp 1A  
(250V/AC)

#### GD-M

2 pole

3 pole

II

II

500

900

500

1000

20

20

40

40

2

3.8

250V AC/30V DC 250V AC/30V DC

1A (250V/AC)

1A (250V/AC)

	1A (30V DC)	1A (30V DC)	1A (30V DC)
Wiring & installation			
Wiring capacity(mm2)	Hard wire	4-25	4-25
	Flexible wire	4-16	4-16
Stripping length		10	10
Terminal screw		M5	M5
Torque(Nm)	Main circuit	3.5	3.5
	Remote signal contact	0.25	0.25
Protection class	All profile	IP40	IP40
	Connection port	IP20	IP20
Installation environment		No obvious shock and vibration	
Altitude(m)		≤ 2000	≤ 2000
Working temperature		67	67
Relative humidity		30%-90%	30%-90%
How to install		Install with H35-7.5/DIN35 steel mounting rail	
Size(mm) (W*H*L)	W	36	54
	H	90	90
	L	67.6	67.6
Weight (KG)		0.25	0.38
Nominal PV system volt	600V	100V	1200V
MCOV(UCPV)	700V DC	1170V DC	1200V DC
Max system discharge Current (8/20us) (Imax)	40KA	40KA	30KA
Volt protection level (UP)	≤ 2.5KV	≤ 4.0KV	≤ 4.5KV
Volt protection Level at 5KA (UP)	≤ 2.0KV	≤ 3.5KV	≤ 4.0KV
Integrate fuse breaking capacity/interrupting rating	30KA/1000V DC	30KA/1000V DC	30KA/1200V DC
Technology	Short-circuit interruption (SCI) overcurrent protection		
Operating temperature range	-40 to +80		
Nominal discharge current	12.5KA		
Response time (ta)	<25ns		
Operating state/fault indication	Green (good) / Red (replace)		
Mounting	35mm DIN Rail per EN 60715		
Degree protection	IP20		
capacity	3 modules DIN 43880		

#### **PV Surge Protective Device SPD Features:**

- Module design, convenient installation, with easy electric maintains operation
- Built-in over current and over heat, temperature control open circuit technology
- Adopt independent intelligence property right and high performance sensitivity resistance plates
- Small creepage current, fast response time, remnant low voltage
- With remote connection, can realize remote control

#### **Application:**

(1) Product Description:

This solar spd 20KA-40KA SPD is applied to provide fine overvoltage protection of electronic equipment whose power is supplied by direct-current power supply.

It is D-level overvoltage protection device, is design according to IEC and GB standard, is available in a variety of different power supply voltage and selector corresponding specifications. It is use for high temperature resistant plastic with excellent tightness, and easy to install wiring.

Adopt temperature control circuit technology which has built-in over current breakers and thermal fuse circuit breakers, automatically trip because of deterioration.  
 It is designed modular deterioration instructions, flame-retardant shell.  
 It has dustproof, anticorrosion and other functions.  
 It is used in a relatively harsh environment staying a long-term stability  
 The remote signal port can achieve remote alarm control.  
 It is widely used in the DC power lightning protection of solar power systems, mobile communication base stations, microwave communications bureau, telecommunications room, plant, civil aviation, finance, securities and other system.

#### Surge Protective Device Arrester Packing List:

Name	Specification	Packing quantity	GW/ctn	Carton size
GDPS-4 DC	2P/20~40KA/DC500V	60	18.5	42*32*16.5cm
GDPS-4 DC	2P/20~40KA/DC800V	60	18.5	42*32*16.5cm
GDPS-4 DC	2P/20~40KA/DC1000V	60	19	42*32*16.5cm
GDPS-4 DC	3P/20~40KA/DC100V	40	18.3	42*32*16.5cm
GDPS-4 DC	2P/20~40KA/DC1200V	40	19.3	42*32*16.5cm

#### Other Hot-Selling Products



#### Company Profile

- Golden Electric Co.,Ltd ,was foundad in 2007, we are professional for make **AC and DC electric items** such as **cable gland,MC4 Connector, isolator switch , fuse , breaker , distribution box , PV combiner box ,surge protector, Indicator lamp,Solar Charge Controller,Industrial plug and socket,Wind Turbine, Solar product and so on.**

- Golden has been granted ISO9001 management system certifications. The comprehensive product line has more than 1000 models which have been approved by TUV,CE,CQC,SGS,ROHS,SASO. The productsells well to UK, Spain, Portugal, Singapore, Turkey, Russia, Korea, South Africa... more than 60 countries and regions.

- Golden is always striving hard to provide the best services and competitive price to all customers.

#### FAQ

\*Package:International standard packaging

\*Transport method : support multiple modes of such as sea, land and air

**1) Are you a factory or trading company?**

Yes we are factories.

**2) What is your FOB port?**

FOB Guangzhou, and we can according to customer requirements.

**3) What is your delivery time?**

3-7 days for samples, 10-30 days for large quantities, according to your order.

**4) How about your after-sale service?**

We can offer you timely and best after-sales service. Now we have built our relationship in many overseas countries like Brazil, Pakistan, Japan and German. It makes our after-sale service very easy and effective to reach you. Also our 24 hours online inquiry service is available.

**5) Can I have my own logo on your products?**

Yes, OEM&ODM service is available.

**Any more query please contact with us, thank you!**



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