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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Surge protection device set - PV-SET 1000 DC - 2804445

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Surge protection in IP65 housing for single string photovoltaic systems up to 1000 V DC, connection via SUNCLIX male/female connector.

### Product Features

- ✓ Plugs can be checked with CHECKMASTER
- ✓ Pre-assembled protection solutions
- ✓ Mechanical coding of all slots
- ✓ Optical, mechanical status indication for the individual arresters
- ✓ Type 2 consistent plug-in surge arresters



### Key commercial data

Packing unit	1 pc
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Dimensions

Height	200 mm
Width	125 mm
Depth	122 mm
Horizontal pitch	5 Div.

#### Ambient conditions

Degree of protection	IP65
	IP65
Impact strength	IK08

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## Technical data

### Ambient conditions

Ambient conditions	A, B
Ambient temperature (operation)	-30 °C ... 55 °C

### General

Housing material	Polycarbonate, glass-fiber-reinforced
Cover material	Polycarbonate, transparent
Connector material	PA
Inflammability class according to UL 94	V2 (Gehäuse / Deckel)
	V0 (Steckverbinder)
Color	light grey RAL 7035
Standards for air and creepage distances	EN 50539-11
Protection class	II
Mounting type	Surface/Wall mounting
Type	Installation housing
Number of positions	2
Surge protection fault message	Optical
Direction of action	(L+)-PE & (L-)-PE & (L+)-(L-)

### PV protective circuit DC side

Open circuit voltage $U_{OCSTC}$	830 V DC
Maximum continuous operating voltage $U_{CPV}$	1000 V DC
Rated surge voltage resistance $U_{imp}$	6 kV
Rated insulation voltage $U_i$	1000 V DC
Short-circuit current rating $I_{SCPv}$	32 A DC
Short-circuit current $I_{SCSTC}$	25 A DC

### Protective circuit

IEC test classification	PV T2
Maximum continuous operating voltage $U_c$	1000 V DC
Rated load current $I_L$	$\leq 80$ A DC
Residual current $I_{PE}$	$\leq 20$ $\mu$ A
	$\leq 250$ $\mu$ A AC
Standby power consumption $P_c$	$\leq 20$ mW
Insulation resistance $R_{iso}$	$> 5$ G $\Omega$ (at 500 V DC)
Voltage protection level $U_p$ (L+) - (L-)	$\leq 3.7$ kV
Max. backup fuse with branch wiring	Not required
Recommended backup fuse maximum	Not required

### Connection, protective circuit

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## Technical data

### Connection, protective circuit

Connection name	PE
Connection method	Screw terminal blocks
	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
	4.5 Nm ... 30 lb <sub>f</sub> -in. (UL)
Stripping length	16 mm
Cable gland	M20
Sealing area	5 mm ... 13 mm
Cable gland	M25
Sealing area	3x 5 mm ... 7 mm

### Remote indicator contact

Switching function	PDT, 1-pos.
Connection method	MC 1,5/3
Screw thread	M2
Tightening torque	0.25 Nm
	2 lb <sub>f</sub> -in. ... 4 lb <sub>f</sub> -in.
Stripping length	7 mm
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	1.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	30
Conductor cross section AWG/kcmil max	16

### Standards and Regulations

Standards/regulations	IEC 61439-2 2011
	EN 61439-2 2011
	EN 50539-11 Surge protection

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801



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### Classifications

#### eCl@ss

eCl@ss 6.0	27130805
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805

#### ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000941

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

### Approvals

#### Approvals

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Approvals

GOST

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Ex Approvals

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Approvals submitted

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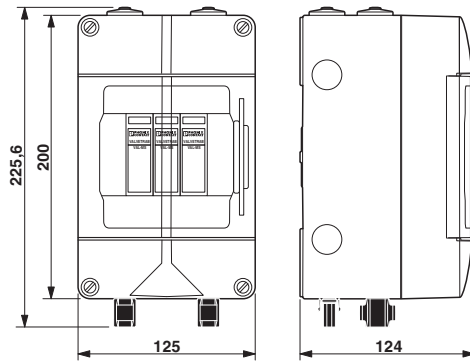
#### Approval details

GOST 
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### Drawings

## Surge protection device set - PV-SET 1000 DC - 2804445

Dimensioned drawing



Circuit diagram

