

1500V DC Isolator 35A DIN Rail Mounting SE030K

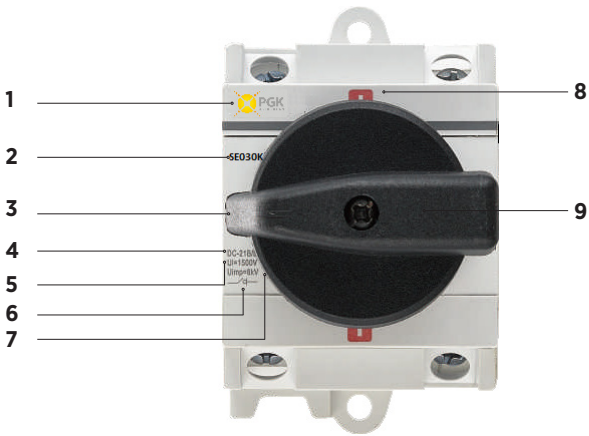


TUV-025979-EA
AS 60947.3

Application

SE030 Series DC disconnect switch is used in 1-200KW solar inverter, 2P for 1 load up to 1000V 50A or 1500V 16A. low temperaturerising, long worklife and short arting time. For Multiple independent MPPTs.

1. Brand
2. Type
3. OFF
4. Application
5. Insulation Voltage
6. Rated impulse Withstand Voltage
7. Rated Current
8. ON
9. Knob



Electrical Characteristics	
Rated Working Voltage (Ue)	Details in diagram
Rated Current (Ie)	Details in diagram
Rated Impulse Withstand Voltage (Uimp)	8kV
Rated Short-Time Withstand Current (Icw)	1.5kA
Rated Short-Circuit Making Capacity (Icm)	2.0kA
Installation Environment	
Utilization Category	DC-PV2
Number of Cycles of Operation (with current)	300-1000
Number of Cycles of Operation (without current)	10000
Pole	2/4/6/8
Mounting	Standard DIN Rail
Tightening Torque Terminal Screws M4, min, -max, M4	2.4Nm - 2.6Nm
Tightening Torque Panel Mounting Nut, min -max	0.5Nm - 0.7Nm
Ambient Temperature Allowed Between	-40°C - +85°C
Storage Temperature Allowed Between	-40°C - +85°C
Relative Humidity	90%
Pollution Degree	2
IP Rating Terminals	IP20

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Identification	Rating Data		
Switch, unenclosed - catalogue number (with DC-PV2 rating)	SE030K		
Specific dedicated individual enclosure -catalogue number (with minimum IP56NW rating)	minimum size of PV inverter 300×150×80mm(IP66NW)		
Assembly of switch and specific dedicated individual enclosure — catalogue number	/		
I_{th} rated thermal current, unenclosed, at 40°C shade ambient air temperature	50 amps		
I_{the} rated thermal current, indoors, at 40°C shade ambient air temperature, in a specific dedicated enclosure	50 amps		
I_{the} rated thermal current outdoors at 40°C shade ambient air temperature without solar effects in a specific dedicated enclosure rated IP56NW	50 amps		
I_{the} solar current value outdoors at 60°C shade ambient air temperature (see D.8.3.11, table D3), with solar effects in a specific dedicated enclosure rated IP56NW	50 amp		
	U_e rated operational voltage DC volts	I_e DCPV2 rated operational current Amps	$I_{(make)}$ and $I_{c(break)}$ DC-PV2 4 x I_e Amps
	300	50	200
	600	50	200
	800	50	200
	1000	50	200
	1200	40	160
	1500	16	64
	300	50	200
	600	50	200
	800	50	200
	1000	50	200
	1200	40	160
	1500	16	64
	300	50	200
	600	50	200
	800	50	200
	1000	50	200
	1200	40	160
	1500	16	64
	300	50	200
	600	50	200
	800	50	200
	1000	50	200
	1200	40	160
	1500	16	64

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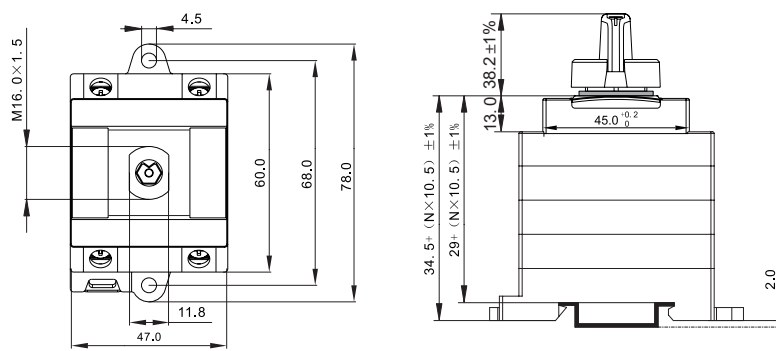


Wiring Diagram

Type	Contact Configuration	Contacts Wiring Diagram	300V	600V	800V	1000V	1200V	1500V	Poles in Series	Number of Strings
SE030K 2P			50A	50A	50A	50A	40A	16A	2	1
SE030K 4P			50A	50A	50A	50A	40A	16A	2	2
SE030K 6P			50A	50A	50A	50A	40A	16A	2	3
SE030K 8P			50A	50A	50A	50A	40A	16A	2	4

Terminals/Connection	
Type	SE030K
Number of poles	2-pole; 3-pole; 4-pole 6-pole; 8-pole
Terminal designation, main circuit	1;3;5;7;9;11;13;15;2;4;6;8;10;12;14;16
Type of terminal, main circuit	Screw terminal
Rated cross sectional area, main circuit	4.0-16mm ²
Type of conductor	 4-16mm ² (Rigid: Solid or Stranded)  4-10mm ² (Flexible)
Number of conductors per terminal	1
Required preparation of the conductor	Yes
Stripping length (mm), main circuit	8mm
Tightening torque (M4), main circuit	Min: 1.2Nm Max: 1.8Nm

Dimensions



Please Note:

Please consult with your Electrician/Engineer to ensure suitability for the intended application and installation.

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