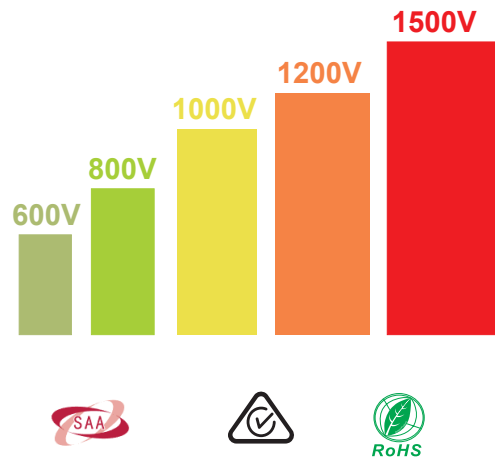


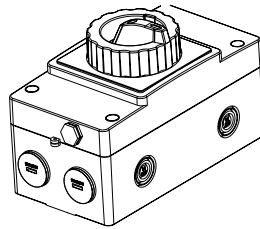
# SE030G 1500V DC Isolator 35A



Technical Specifications	
Type	SE030G, SE030L, SE030K
Function	Isolator, Control
Standard	IEC60947-3, AS60947.3
Utilization category	DC-PV2 / DC-21B
Pole	4P
Rated frequency	DC
Rated operational voltage (U <sub>e</sub> )	300V, 600V, 1000V, 1200V, 1500V
Rated operational current (U <sub>e</sub> )	See the next page
Rated insulation voltage (U <sub>i</sub> )	1500V
Conventional free air thermal current (I <sub>th</sub> )	II
Conventional enclosed thermal current (I <sub>th</sub> )	Same as I <sub>e</sub>
Rated short-time withstand current (I <sub>cw</sub> )	1.5kA, 1s
Rated short-time making capacity (I <sub>cm</sub> )	2kA
Rated conditional short-circuit current (I <sub>cn</sub> )	3kA
Rated impulsive withstand voltage (U <sub>imp</sub> )	8.0kV
Overvoltage category	II
Suitability for isolation	Yes
Polarity	No polarity, "+" and "-" polarities could be interchanged.
Mechanical	10000
Electrical	1000
Ingress Protection Enclosure	IP66
Ingress Protection Switch body	IP20
Storage Temperature	-5°C ~ +85°C
Mounting Type	Isolator can be can be mounted in any plane
Pollution degree	3
Suitable environment	Outdoor / Indoor

# SE030G 1500V DC Isolator 35A

## Breathing Valve

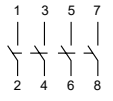
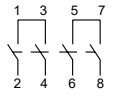


PGK DC Isolator positioning of condensation breathing/pressure equalization valve.

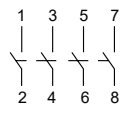
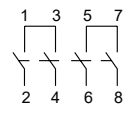
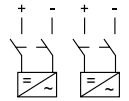
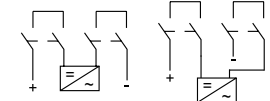
Identification	Rating Data		
	$U_e$ rated operational voltage DC volts	$I_e$ ; DCPV2 rated operational current Amps	$I_{(make)}$ and $I_{c(break)}$ DC-PV2 4 x $I_e$ Amps
Switch, unenclosed - catalogue number (with DC-PV2 rating)	SE030L, SE030K		
Specific dedicated individual enclosure - catalogue number (with minimum IP56NW rating)	SE030G IP66NW		
Assembly of switch and specific dedicated individual enclosure - catalogue number	SE030G		
$I_{th}$ 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 IP66NW	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 IP66NW	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
2 Pole  <u>1 / 2 /</u> —	≤300	50	200
	600	50	200
	1000	50	200
	1200	32	128
	1500	16	64
4 Pole  <u>1 / 2 / 3 / 4 /</u> —	≤300	50	200
	600	50	200
	1000	50	200
	1200	50	200
	1500	35	140

# SE030G 1500V DC Isolator 35A

## Wiring Diagram for Rated operational voltage $U_e$ (V) & Rated operational current $I_e$ (A)

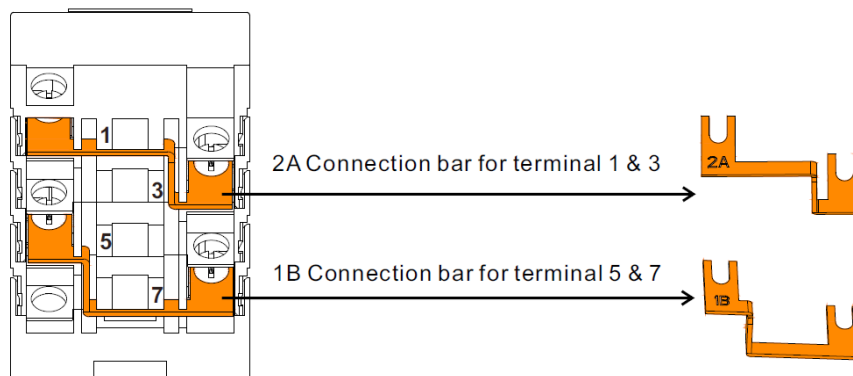
Contacts Wiring Diagram	600V	1000V	1200V	1500V	Poles in Series	Number of Strings	Type Number	Weight kg/PCS
	50A	50A	32A	16A	2	2	4	0.70
	50A	50A	50A	35A	4	1	4B	0.70

## Switching Configurations

Type	4-Pole	4-Pole with Input and Output Bottom
/	4	4B
Contacts Wiring Graph		
Switching Example		



## Bridging links installation

Installed correctly

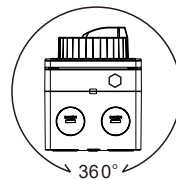
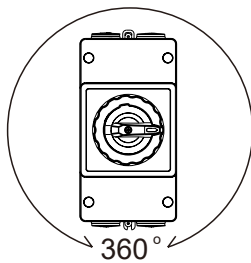


**WARNING:** Verify that all connections (including bridging link connections) are suitable for the rated current. Ensure only conductive parts are clamped and tightened to the manufacturers required torque before energization.

# SE030G 1500V DC Isolator 35A

Terminals/Connection	
Type	SE030G, SE030L, SE030K
Number of poles	4-pole
Terminal designation, main circuit	1; 3; 5; 2; 4; 6; 7; 8
Type of terminal, main circuit	Screw terminal
Rated cross sectional area, main circuit	4.0-16mm <sup>2</sup>
Type of conductor	 4-16mm <sup>2</sup> (Rigid: Solid or Stranded)  4-10mm <sup>2</sup> (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

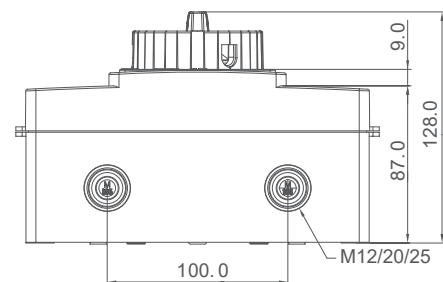
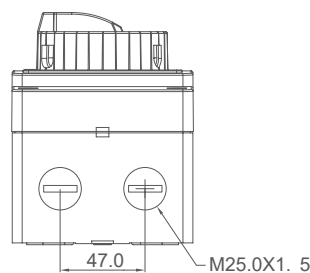
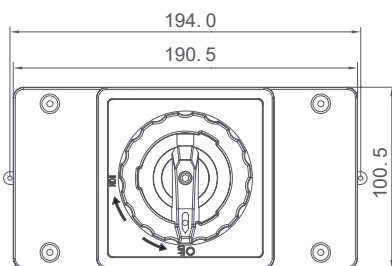
## IP Rating



 IP66NW

PGK DC Isolator can be mounted in any plane  
 Note: The isolator must be protected from direct exposure to sun and rain as per the CEC guidelines

## Dimensions (mm)



# SE030G 1500V DC Isolator 35A

## Pole Rating: Data from AS60947-3: 2018

Main Contacts	Type			Appendix B5
Rated Thermal current $I_{the}$	A	32		Making & Breaking 5X operations
Rated Insulator Voltage $U_i$	V	1000		
Distance of contacts (per pole)	mm	8		
Rated Operational Current $I_e$ (DC-PV2)				
1 pole 1	300V	A	25	100
	400V	A	10	40
	500V	A	8	32
	600V	A	8	32
	800V	A	3	12
	1000V	A	2	8
4 pole 2 pole in series 4	500V	A	50	200
	600V	A	50	200
	700V	A	50	200
	800V	A	50	200
	900V	A	50	200
	1000V	A	50	200
	1200V	A	32	128
2 pole 4 pole in series 4B	1500V	A	16	64
	500V	A	50	200
	600V	A	50	200
	800V	A	50	200
	800V	A	50	200
	900V	A	50	200
	1000V	A	50	200
1200V	A	50	200	
1500V	A	35	140	

**Please Note:**

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

PGK Distribution takes every precaution to ensure the information in this publication is correct but accepts no liability of any kind and reserves the right to change any detail in this catalogue without notification.