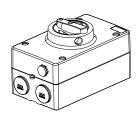
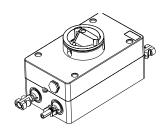


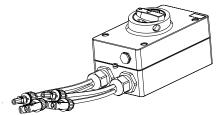
Technical Specifications	
Туре	SE030A, SE030B, SE030E, SE042E, SE042B, SE042H
Function	Isolator, Control
Standard	IEC60947-3, AS60947.3
Utilization category	DC-PV2 / DC-21B
Pole	4P
Rated frequency	DC
Rated operational voltage $(U_e)$	500V, 600V, 800V, 1000V
Rated operational current $(U_e)$	See the next page
Rated insulation voltage (U <sub>i</sub> )	1200V
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> )	1kA,1s
Rated short-time making capacity (I <sub>cm</sub> )	1.7kA
Rated conditional short-circuit current (I <sub>cn</sub> )	3kA
Rated impulsed withstand voltage (U <sub>imp</sub> )	8.0kV
Cable UV Rating	HD 605/A1 (Genuine MC4 Leads : SE042E, SE042H)
	EN50289-4-17 (SE042B)
Overvoltage category	II
Suitability for isolation	Yes
Polarity	No polarity, "+" and "-" polarities could be interchanged.
Mechanical	15000
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



#### **Breathing Valve**







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

Identification		Rating Data		
Switch, unenclosed - catalogue number (with DC-PV2 rating)	SE030L, SE030K			
Specific dedicated individual enclosure - catalogue number (with minimum IP56NW rating)	SE030A IP66NW			
Assembly of switch and specific dedicated individual enclosure - catalogue number	SE030A, SE030B, SE030E, SE042E, SE042B, SE042H			
I <sub>th</sub> rated thermal current, unenclosed, at 40°C shade ambient air temperature	32 amps			
I <sub>the</sub> rated thermal current, indoors, at 40°C shade ambient air temperature, in a specific dedicated enclosure	32 amps			
I <sub>the</sub> rated thermal current outdoors at 40°C shade ambient air temperature without solar effects in a specific dedicated enclosure rated IP66NW	32 amps			
I <sub>the</sub> 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	re 29 amps			
	U <sub>e</sub> rated operational voltage DC volts	I <sub>e</sub> ; DCPV2 rated operational current Amps	I <sub>(make)</sub> and I <sub>c(break)</sub> DC-PV2 4 x I <sub>e</sub> Amps	
2 Pole	≤500	32	128	
	600	13	52	
1/2/_	800	9	36	
	1000	9	36	
4 Pole	≤500	32	128	
	600	32	128	
_1/_2/_3/_4/	800	32	128	
	1000	32	128	



#### Wiring Diagram for Rated operational voltage Ue (V) & Rated operational current le (A)

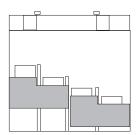
Contacts Wiring Diagram	300V	500V	600V	800V	1000V	Poles in Series	Number of Strings	Type Number
1 3 5 7	32A	32A	13A	9A	9A	2	2	4
1 3 5 7	32A	32A	32A	32A	32A	4	1	4B

### **Switching Configurations**

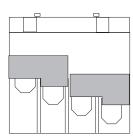
Туре	4-Pole	4-Pole with Input and Output Bottom		
/	4	4B		
Contacts Wiring Graph	1 3 5 7 1 1 2 4 6 8	1 3 5 7		
Switching Example	+ - + -			

### **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.



Terminals/Connection			
Туре	SE030A, SE030B, SE030E, SE042E, SE042B, SE042H		
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	4.0-16mm²		
	4-16mm² (Rigid: Solid or Stranded)		
Type of conductor	4-10mm² (Flexible)		
Number of conductors per terminal	1		
Required preaparation of the conductor	Yes		
Stripping length (mm), main circuit	8mm		
T. I	Min: 1.2Nm		
Tightening torque (M4), main circuit	Max: 1.8Nm		

### **IP Rating**

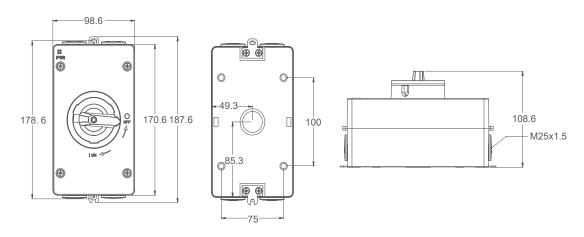






PGK DC Isolator can be can be mounted in any plane Note: The isolator must be protected from direct exposure to sun and rain as per the CEC guidlines

### Dimensions (mm)





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

Main Contacts		Type		Appendix B5
Rated Thermal current I <sub>the</sub> Rated Insulator Voltage U <sub>i</sub> Distance of contacts (per pole)		A V mm	32 1000 8	Making & Breaking 5X operations
Rated Operational Current le (DC-PV2)				
1 pole	300V	А	25	100
1	400V	А	10	40
	500V	А	8	32
	600V	А	8	32
1/	800V	А	3	12
	1000V	А	2	8
4 pole	500V	А	32	128
2 pole in series	600V	А	13	52
4	700V	А	9	36
	800V	А	9	36
	900V	А	9	36
	1000V	А	9	36
_1/_2/				
2 pole	500V	A	32	128
4 pole in series 4B	600V	А	32	128
	800V	А	32	128
	800V	А	32	128
	900V	А	32	128
	1000V	А	32	128
_1/_2/_3/_4/				

#### 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 plublication is correct but accepts no liability of any kind and reserves the right to change any detail in this catalogue without notification.

#### **PGK Distribution**