

Product Selection Guide

TRUE DC Solar Isolators



How to select the correct isolator for your needs...

When choosing the appropriate TRUE DC solar isolator there are various factors that need to be considered, such as how many strings your PV system has, how many poles are required, and what mounting type you need. The following steps will help you to select the right isolator for your installation.



Step 1: Is it a Single or Multiple String System?

DC-PV1 For switching of Single String Systems, select the DC-PV1 data shown in the blue columns in the table below

DC-PV2 For switching of Multiple String Systems, select the DC-PV2 data shown in the green columns in the table below

EXAMPLE: "I need a 600V, 20A enclosed DC isolator, for a single string installation"

1. For single string, refer to the 2 Pole section below for DC-PV1.
2. Identify your maximum voltage.
3. Select your maximum current (select next current rating up from your maximum. eg. max. current is 20A, so select 25A rated isolator).
4. Identify your part. In this instance **SI25**.

Main Contacts	Rated operational current I _e	Type	SI16	SI25	SI32	SI38	SI40	SI55	SI65							
2 poles Single String	500V	A	16	16	25	25	32	32	45	38	48	40	55	55	76	75
	600V	A	16	14	25	21	32	27	45	31	48	40	55	55	76	75
	700V	A	16	13	25	19	32	22	36	25	37	35	55	55	76	65
	800V	A	16	12	20	15	23	17	30	19	35	33	55	49	65	52
	900V	A	16	8	17	10	20	12	25	14	31	25	43	35	55	38
	1000V	A	10	4	11.5	5	13	6	20	7	29	16	36	20	40	20
	1100V	A	8	3	10	4	11.5	5	-	-	19	11	25	15	-	-
	1200V	A	7	2	8.5	3	10	4	10	4	11	8	17	12	17	12
	1300V	A	6	1.5	7	2	8	3	-	-	10	7	14	10	-	-
	1400V	A	5	1	6	2	7	3	-	-	9	7	12	9	-	-
1500V	A	3	1	5	1.5	6	2	6	2	8	6	10	8	10	8	
4 poles up to Two Strings	500V	A	16	16	25	25	32	32	45	45	48	48	55	55	76	75
	600V	A	16	16	25	25	32	32	45	45	48	48	55	55	76	75
	700V	A	16	16	25	25	32	32	45	45	48	48	55	55	76	75
	800V	A	16	16	25	25	32	32	45	38	48	40	55	55	76	75
	900V	A	16	16	25	25	32	32	45	38	48	40	55	55	76	65
	1000V	A	16	16	25	25	32	32	38	38	40	40	55	55	76	65
	1100V	A	16	15	25	25	32	32	-	-	40	-	55	55	55	-
	1200V	A	16	13.5	25	21	32	27	32	27	40	40	55	55	55	55
	1300V	A	16	12	25	19	32	24	-	-	40	-	55	50	55	-
1400V	A	16	10.5	25	16	32	21	-	-	40	-	55	45	55	-	
1500V	A	16	9	25	14	32	18	32	18	40	30	55	40	55	40	
6 poles up to Three Strings	500V	A	29	24	45	45	58	58	-	65	72	-	85	-	85	-
	600V	A	29	22	45	34	58	44	-	48	72	-	85	-	85	-
	700V	A	29	20	43	28	55	34	-	35	72	-	85	-	85	-
	800V	A	29	18	40	24	51	29	-	31	68	-	85	-	85	-
	900V	A	29	16	38	20	47	24	-	24	62	-	78	-	78	-
	1000V	A	29	14	38	18	45	20	-	20	58	-	70	-	70	-
	1100V	A	19	-	27	-	37	-	-	-	-	-	-	-	-	-
	1200V	A	17	11	25	13	28	15	-	15	-	-	-	-	-	-
	1300V	A	15	-	21	-	25	-	-	-	-	-	-	-	-	-
	1400V	A	12	-	18	-	22	-	-	-	-	-	-	-	-	-
1500V	A	10	4	14	6	20	8	-	8	-	-	-	-	-	-	
8 poles up to Four Strings	500V	A	29	29	45	45	58	58	65	65	72	-	85	-	85	-
	600V	A	29	29	45	45	58	58	65	65	72	-	85	-	85	-
	700V	A	29	25	45	40	58	53	65	65	72	-	85	-	85	-
	800V	A	29	21	45	35	58	45	65	60	72	-	85	-	85	-
	900V	A	29	18	45	30	58	37	65	55	72	-	85	-	85	-
	1000V	A	29	16	45	25	58	32	65	50	72	-	85	-	85	-
	1100V	A	29	-	45	-	54	-	-	-	60	-	68	-	-	-
	1200V	A	29	13.5	45	21	50	27	50	27	56	-	65	-	65	-
	1300V	A	26	-	39	-	44	-	-	-	50	-	61	-	-	-
	1400V	A	23	-	33	-	38	-	-	-	46	-	-	-	-	-
1500V	A	20	9	26	14	32	18	32	18	42	-	55	-	55	-	

Step 2: Specify your mounting type and number of poles

We have determined that for the example shown, the part number will begin with SI25, but we must also specify the desired Mounting Type and the number of poles in order to get a complete part number. In this example the customer requires an enclosed 2 pole isolator. Following the product selector below the part number can be complete as follows:

SI		25		- PEL64R		- 2					
Series						Number of Poles		Single String	Up to 2 (Single) Strings	Up to 3 (Single) Strings	Up to 4 (Single) Strings
SI DC Solar Isolator		SI						2-Pole	✓	✗	✗
Switch Rating								4-Pole	✓	✓	✗
16 Amp	16	40 Amp	40					6-Pole	✓	✓	✗
25 Amp	25	55 Amp	55					8-Pole	✓	✓	✓
32 Amp	32	65 Amp	65								
38 Amp	38										

Mounting Type		
Panel Mount (4-screw), 64 x 64 Escutcheon Plate, Lever Handle		PM64
Panel Mount (4-screw), 64 x 64 Escutcheon Plate, Lockable Lever Handle		PML64
Panel Mount (4-screw), 64 x 64 Lockable Rotary Handle		PM64R
Single Hole (22.5mm) Mount, 48 x 48 Escutcheon Plate, Lever Handle		SHM
Single Hole (22.5mm) Mount, 48 x 48 Escutcheon Plate, Lockable Lever Handle		SHML
Base Mount (DIN Rail), 64 x 64 Escutcheon Plate, Lever Handle		BMDC64
Base Mount (DIN Rail), 64 x 64 Escutcheon Plate, Lockable Lever Handle		BMDCL64
Base Mount (DIN Rail), 64 x 64 Lockable Rotary Handle		BMDC64R
Modular Switch, Lever Handle		DB
Modular Switch, Lockable Lever Handle		DBL
Enclosed Version, Lockable Rotary Handle		PEL64R



PLEASE NOTE: The feasibility of a code number does not guarantee effective availability of a product.

Panel Mount (4-screw) 64 x 64 Escutcheon Plate Lever Handle, IP66, NEMA 3R	Single Hole Mount (22.5mm) 48 x 48 Escutcheon Plate Lever Handle, IP66, NEMA 4X	Base Mount (door coupling) 64 x 64 Escutcheon Plate Lever Handle, IP66, NEMA 4X	Modular Switch Lever Handle, IP40, Open Type
SI**PM64*	SI**SHM*	SI**BMDC64*	SI**DB*

Panel Mount (4-screw) 64 x 64 Escutcheon Plate Lockable Lever Handle, IP66, NEMA 3R	Single Hole Mount (22.5mm) 48 x 48 Escutcheon Plate Lockable Lever Handle, IP66, NEMA 4X	Base Mount (door coupling) 64 x 64 Escutcheon Plate Lockable Lever Handle, IP66, NEMA 4X	Modular Switch Lockable Lever Handle, IP40, Open Type
SI**PML64*	SI**SHML*	SI**BMDCL64*	SI**DBL*

Panel Mount (4-screw) 64 x 64 Lockable Rotary Handle, IP66, NEMA 3R	Base Mount (door coupling) 64 x 64 Lockable Rotary Handle, IP66, NEMA 4X	Enclosed Version Lockable Rotary Handle, IP67, NEMA 4X
SI**PM64R*	SI**BMDC64R*	SI**PEL64R*

**For more information
please email sales@imopc.com**

Meet the range



Technical Data

