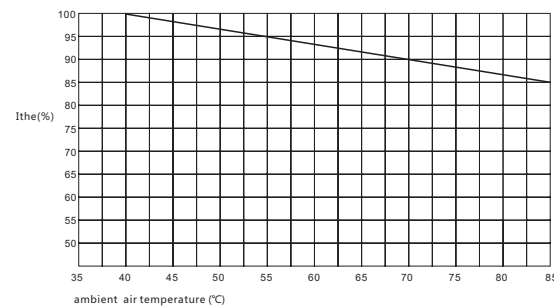


Derating curve



DC isolators switch instructions:

It is important to ensure that all electrical connections(including factory connections) are tight, ensure that all terminal screws are tightened firmly.

It is recommended that for DC, multi-stranded cable, crimp ferules are used to ensure that the wires do not become loose, loose cables can cause excessive watt loss and generate excessive heat causing severe damage to the switch.

After installing and wiring the switch carry out the following test: switch on and off several times making sure that a positive snap action can be felt and heard.

If the switch cannot be felt and heard to operate correctly then it is important that the switch is not used.

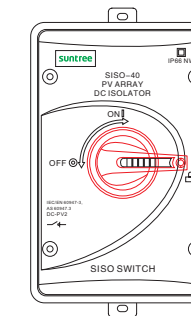
Identification and rating data

Identification	Rating data		
Switch, unenclosed — catalogue number (with DC-PV2 rating)	SISO-40 MD		
Specific dedicated individual enclosure — catalogue number (with minimum IP66NW rating)	SISO-40 IP66NW		
Assembly of switch and specific dedicated individual enclosure — catalogue number	/		
I_{th} rated thermal current, unenclosed, at 40 °C shade ambient air temperature	32A		
I_{th} rated thermal current, indoors, at 40 °C shade ambient air temperature, in a specific dedicated enclosure	32A		
I_{th} rated thermal current outdoors, at 40 °C shade ambient air temperature without solar effects in a specific dedicated enclosure rated IP66NW	32A		
I_{th} 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	29A		
Polarity	No polarity, "+" and "-" polarities could be interchang ed.		
Suitable environment	Outdoor/ Indoor		
	U_o rated operational voltage DC volts		
	I_o DCPV2 rated operational current Amps		
	$I_{(make)}$ and $I_{(break)}$ DC-PV2 4 x I_o Amps		
2 pole (1 2)	≤600	40	160
	800	25	100
	1000	16	64
	1200	10	40
4 pole (1 2 3 4)	≤600	40	160
	800	40	160
	1000	32	128
	1200	32	128

Electrical Characteristics	
Type	SISO-40MD, SISO-40
Function	Isolator, Control
Standard	IEC/EN 60947-3, AS 60947.3
Utili zation category	DC-PV2/DC-21B
Pole	4P
Rated frequency	DC
Rated duty(Ue)	300V, ≤600V, 800V, 1000V, 1200V
Rated operational current(Ie)	10A, 16A, 25A, 32A, 40A, 50A
Rated insulation voltage(Ui)	1500V
Conventional free air thermal current(Ith)	//
Conventional enclosed thermal current(Ithe)	32A
Rated short-time withstand current(Icw)	1kA, 1s
Rated short-circuit making capacity(Icm)	1.7kA
Rated conditional short-circuit current(Icn)	3kA
Rated impulse withstand voltage(Uimp)	8.0kV
Overvoltage category	//
Suitability for isolation	Yes
UV resistant	Yes
Polarity	No polarity, "+" and "-" polarities could be interchang ed.
Service Life/Cycle Operation	
Mechanical	20000
Electrical	2000
Installation Environment	
Ingress protection Enclosure	IP66NW
Ingress protection Switch body	IP20
Storage Temperature	-40°C~+85°C
Mounting Type	Vertically or horizontally
Pollution degree	3
Suitable environment	Outdoor/ Indoor
Torque:Nm	1.8-2.0
Cable range:mm'	4mm'-16mm'



SISO-40 PV SWITCH-DISCONNECTOR

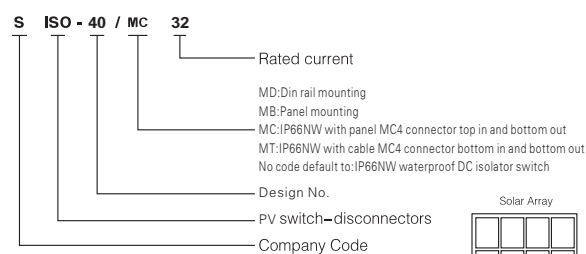


SUNTREE ELECTRIC CO., LTD

Add: Xinguang Industrial Zone, Liushi Town, Yueqing, Zhejiang, China
TEL: +86-0577-62890205 FAX: +86-577-62890578
Http://www.chinasuntree.com

PV SWITCH-DISCONNECTOR

DC isolators have been specifically designed to switch direct current(DC) at voltage up to 1200V, their robust design and ability to switch such voltages, at rated current, means that they are ideally suited to be used in the switching of photovoltaic(PV) systems.



Key Features:

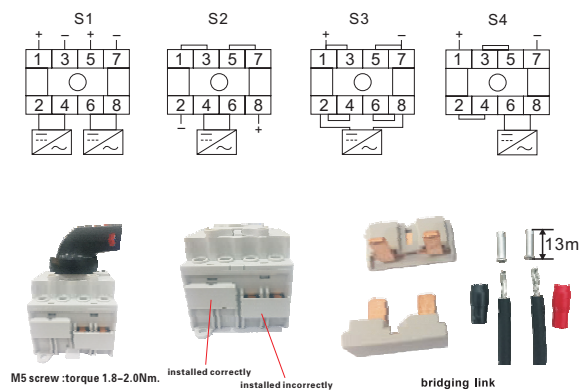
- ◆ I_e=10A, 16A, 25A, 32A, 40A, 50A; all rated up to DC-PV2, DC-21B: 1000/1200Vd.c., 32A
- ◆ IP66NW rated enclosure,
- ◆ Ample internal space for easier wiring.
- ◆ Polycarbonate flame retardant ROHS compliant plastic.
- ◆ Unique spring loaded switching mechanism for high speed switching.
- ◆ Knife edge self-cleaning contacts for increased switch life.
- ◆ Long arc chambers to help rapid arc suppression.
- ◆ 16mm² rising clamp terminals for easy wiring.
- ◆ The switch has 4 separate poles.
- ◆ Links can be used to change the way that the poles are connected.
- ◆ Poles can be connected in series or parallel or a variation of both series and parallel.
- ◆ Interconnection of the poles dictates the load that the switch can make and break.
- ◆ As the number of poles used increases so the total load switching capacity of the device increases.

All photo voltaic installations must have a dc switch to disconnect the dc/ac inverter from the photovoltaic panels in accordance with IEC60947-3, AS60947.3

Table 1

	≤600V	40A		≤600V	50A
S1	800V	25A	S3	800V	40A
	1000V	16A		1000V	32A
	1200V	10A		1200V	32A
S2	800V	40A	S4	800V	40A
	1000V	32A		1000V	32A
	1200V	32A		1200V	32A

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



Data

Mounting Type	Enclosure(IP66NW)	Vertically or horizontally
	Switch body(IP20)	Vertically
Rated cross sectional area, main circuit	4.0-16mm ²	
Type of conductor	Stranded(Flexible)or Rigid(Solid)	
Tightening torque(M5), main circuit	Min:1.8Nm;Max:2.0Nm	

MOUNTING INSTRUCTIONS

