

SRS

Automatic Overload Changeover Switch (AOCS)

Installation Instructions



Safety

⚠ CAUTIONS

1. This AOCS may only be installed by skilled electricians otherwise fire hazard or danger of electric shock exists.
2. It is recommended to connect the AOCS with its preset current matching MCB/RCBO at incoming mains solar and grid.
3. Before installation or maintenance, ensure that the power supply is turned off and adequately isolated.
4. Do not disassembly or repair AOCS which may cause an electric shock, fire or other accident.
5. Do not spray water or oil on AOCS.

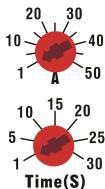
Description

AOCS is an automatic changeover switch between Mains solar and backup grid. When Mains solar fails, AOCS will shift the solar on the grid after 3 seconds to provide temporary power for essential circuits. When the Mains solar resumes, AOCS will shift the solar back to Mains after preset time delay.

Features

1. 1-50A adjustable current
2. 1s-30s adjustable restoring delay time
3. Operation status with LED indication
4. Automatic Generator ON/OFF ignition
5. Reliable operation and durable life

Rotary switches & Button



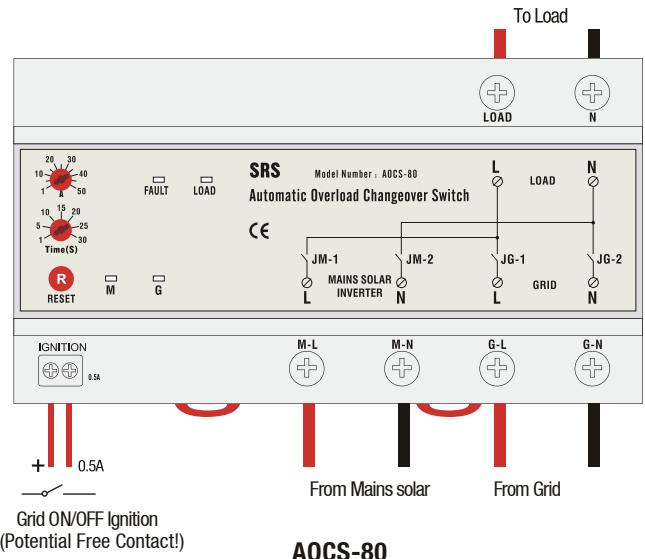
Press the RESET button to restore supply

AOCS-80

Mains solar: 1-50A Adjustable
Grid: fixed 60A

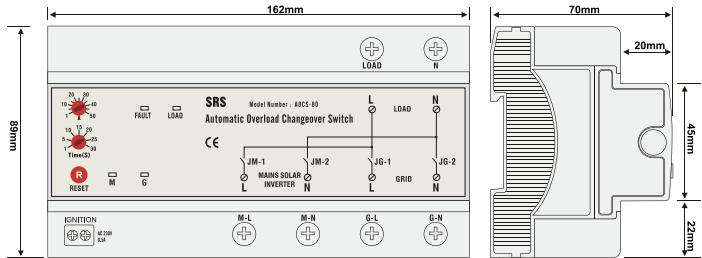
*These instructions should be read in full and retained after installation for future reference.

Wiring



AOCS-80

Dimension



Operation

During Mains solar Supply

- 1.The AOCS allows supply from Mains solar within preset current. Mains solar indicator M keeps lighting.
- 2.In case the current exceeds the limit, the load will be disconnected for 10 mins as a warning, then automatically reconnected.
- 3.During the 10 mins disconnection, AOCS will check the overload status.
- 4.Switch off the non-essential loads to reduce the current within the limit.
- 5.Mains solar has the priority to provide the supply. When M overloads, the indicator flashes. After 3secs, it switches to Grid. If Grid overloads, wait for 10mins. At this time, if the current dropped to 65% of the setting value, Mains solar will start.
- 6.The overload will circle 5 times and FAULT indicator will be steady light.
- 7.Wait for 30mins or press the RESET button to restore supply.
- 8.When the Mains solar supply fails, the supply switches to Grid after 3seconds time delay.

During Grid Supply

- 1.AOCS allows supply from Grid within preset current. Indicator G keeps lighting.
- 2.If the current exceeds the limit, the load will be disconnected 10mins as warning, then automatically reconnected.
- 3.Switch off the non-essential loads to reduce the current within the limit.
- 4.If the user does not reduce the load current within the limit, AOCS will repeat 5 times warning, then disconnect the load and the FAULT indicator keeps lighting.
- 5.Wait for 30mins or press the RESET button to restore supply.
- 6.When the Mains solar supply resumes, the AOCS switches to Mains solar after preset time delay.

PLEASE NOTE

1. Grid ignition is a potential free contact!!Please adhere to this when wring the unit.
- 2.When mains solar is power on, indicator M light, the grid ignition is a close contact. When no power on mains solar, indicator M off, the grid ignition is an open contact.
3. Grid ignition is incapable of high load capacity(less than 0.5A).

Technical data

(AOCS)

Type	AOCS-80
No. of Poles	1P+N
No. of Grid Connection	1
Rated Current	Mains solar : 1-50A Adjustable Grid: fixed 60A
Rated Voltage	230V AC
Operating Voltage Range	0.75 - 1.15 of Un
Rated Frequency	50/60Hz
Power Consumption	4.5VA , 230V AC
Rated Insulation Voltage	500V
Rated Impulse Voltage	1.5kV
Dielectric Strength	2.0kV
Duty	Uninterrupted
LED Indication	Mains solar: Blue , Grid: Blue , Load: Green , Fault: Red
Changeover Delay Time	Mains solar to Grid: 3s , Grid to Mains solar: 1-30s Adjustable
Changeover Line	Live and Neutral Line
Switching Capacity	80A @ 230V AC (COS ϕ =1) , 30A with inductive load COS ϕ = 0.6
Utilization Category	AC 21A (IEC 60947-3) , AC 31B (IEC 60947-6)
Ambient Temperature	-5 to 55 °C
Pollution Degree	2
Protection Class	IP20
Mounting	DIN RAIL (35x7.5mm)
Mounting Position	Horizontal , Vertical
Terminal Capacity	16-25mm ²
Weight	725g
Dimension	162 x 89 x 70mm
Standard conformity	IEC 60947-6 / IEC 60947-3