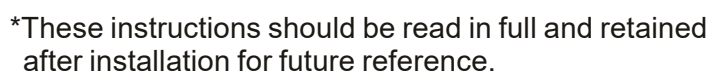


## Automatic Overload Changeover Switch (AOCS)

# AOCS-80

Grid: fixed 60A



## CAUTIONS

- 

Delay time setting : 1s-30s (Grid to Mains solar)



The diagram illustrates the internal wiring of the AOCs-80 Automatic Overload Changeover Switch. It features two rotary switches for Time (S) and a RESET button. The internal components are labeled as JM-1, JM-2, JG-1, JG-2, and L, N. The diagram shows the connections for Mains Solar Inverter (JM-1, JM-2), Grid (JG-1, JG-2), and Load (L, N). The diagram also shows the external connections for Ignition (0.5A), M-L, M-N, G-L, and G-N, and the main power lines (To Load, From Mains solar, From Grid).

Technical drawing of the SRS Automatic Overload Changer Switch, showing front and side views with dimensions.

**Front View Dimensions:**

- Overall Width: 162mm
- Overall Height: 86mm

**Front View Details:**

- Top terminals:  $\oplus$  LOAD,  $\oplus$  N
- Left side: 24V, 20V, 16V, 12V, 8V, 4V, 0V (Time=30) selector switch, FAULT indicator, LOAD indicator, RESET button, and M, G, N, 0 terminals.
- Center: **SRS** Model Number : SRS5-80, **Automatic Overload Changer Switch**, and CE mark.
- Right side: L, N, L, N, L, N, L, N terminals connected to LOAD, GRID, and N.
- Bottom terminals:  $\oplus$  M-L,  $\oplus$  M-N,  $\oplus$  G-L,  $\oplus$  G-N
- Bottom left: KIONTONG and AL500 50A

**Side View Dimensions:**

- Overall Width: 70mm
- Overall Height: 45mm
- Mounting Flange Width: 20mm
- Base Height: 22mm

## Operation

### During Mains solar Supply

- 1.The A0CS 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, A0CS 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.A0CS 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, A0CS 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 A0CS switches to Mains solar after preset time delay.

## PLEASE NOTE

1. Grid ignition is a potential free contact!!Please adhere to this when wiring 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

(A0CS)

Type	A0CS-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 $\varphi$ =1 ) , 30A with inductive load COS $\varphi$ = 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 <sup>2</sup>
Weight	725g
Dimension	162 x 89 x 70mm
Standard conformity	IEC 60947-6 / IEC 60947-3