

# SG3204S DC Strings Meter



The DC Strings Meter for PV Panels is suitable to be installed in small to medium sized PV Combiner Box, which can measure the power generating capacity and accumulated total energy output for up to 4 combinations (SG3204S) PV power circuit. The DC Strings Meter can also measure instant power, voltage, and current for each loop as well as detect temperature/surge in surrounding areas. Through the electric-isolated RS-485 interface, users can remotely control and monitor the operating status of each string PV panel and analyze the collected data on the computing control system to optimize power generating performance.

## Features

**Wide Voltage** : 40Vdc~1000Vdc

**Low Consumption** : Below 0.5W (incl. loop voltage measuring consumption)

**Wide Temp.** : -40°C~75°C

**High Accuracy** : Energy (kWh) & Power (W, V, A)

Measuring Precision 1%+0.5%FS(@ TA 0~40°C);

2%+1%FS(@ TA -40~70°C)

**Wide Range Measurement** :

Voltage Range 40Vdc~1,000Vdc,  
Precision 0.1Vdc;

Current Range 0.1A~15A,  
Precision 0.01A;

Power Range 0.01kW~15kW,  
Precision 0.001kW;

Energy Range 0.1kWh~99,999kWh

**Power Source** : From outer 24~48Vdc supply

**Operation** : Use DIP switches to choose from 1~63 for ID, and from 2~4 for combination no.

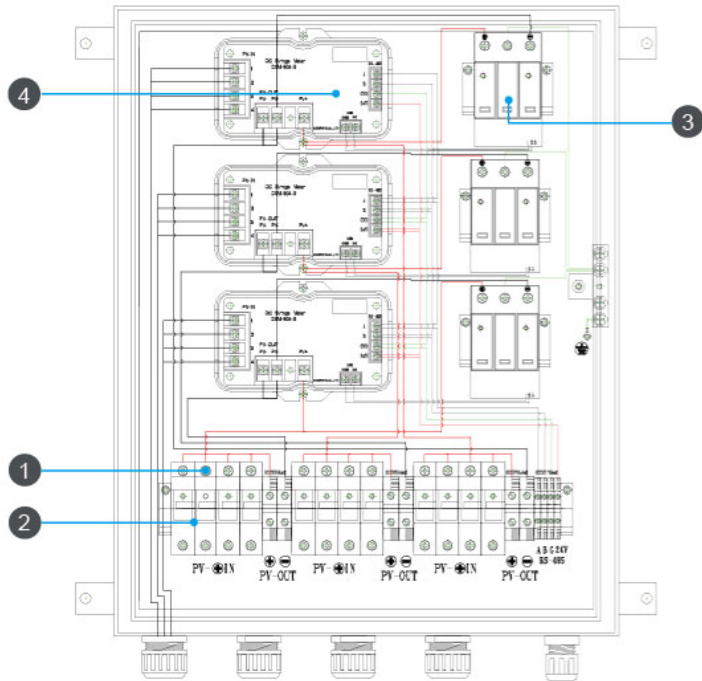
## Technical Specifications

|                                  |                     |   |
|----------------------------------|---------------------|---|
| Model Name                       |                     | SG3204S   |
| Rated Current                    |                     | 4 Strings; 10A for each String;<br>Max. 40A Total |
| Rated Voltage                    |                     | 900Vdc  |
| Class of Accuracy<br>(kWh.W.V.A) | @ TA 0~40°C         | 1%+0.5%FS   |
|                                  | @ TA -40~70°C       | 2%+1%FS   |
| Measure Display                  | Voltage             | 40Vdc~1,000Vdc                                    |
|                                  | Total Current       | 0.1A~60A  |
|                                  | Total Power         | 0.1kW~60kW  |
|                                  | Total kWh           | 0.1 kWh ~99,999 kWh                               |
|                                  | Each String Power   | 0.01 kW~15kW                                      |
|                                  | Each String Current | 0.01 A~15A  |
| Settings for no. & ID            |                     | Use the DIP Switches                              |
| Comm. Interface                  |                     | RS-485(Series)                                    |
| Environment Temp                 |                     | Measure & Record Temp.<br>-40 °C ~75 °C           |
| SPD Detection                    |                     | •   |
| Power Consumption                |                     | 0.5W (external 24Vdc~48Vdc)                       |
| Working Temp                     |                     | -40°C~75 °C · 5 %~95%RH                           |
| Dimension WxHxD                  |                     | 9.5(L) x 14.1(W) x 4.0(H)cm                       |

**Model No. Description**

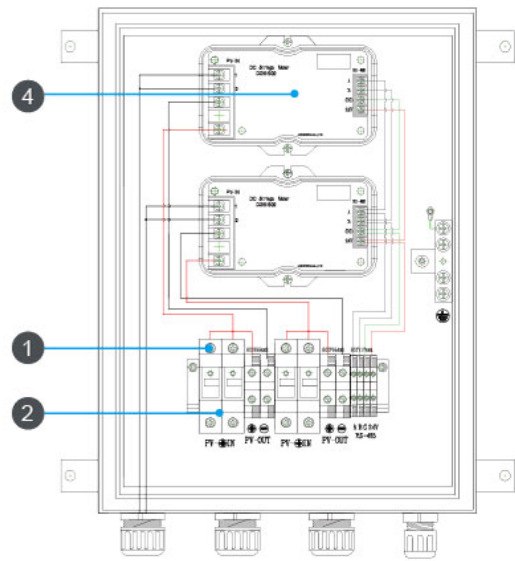
|                |         |                |
|----------------|---------|----------------|
|                | SG3204S |                |
| Strings number | XX      |                |
|                | 3204    | 4 combinations |

**Application Diagram**



- ① Solar PV Fuse
- ② Fuse Holder
- ③ SPD, Surge Protective Device
- ④ DC String Meter

Model : SG3304S-3-54  
(incl. SG3204Sx3pcs)



Model : SG3302S-2-43  
(incl. SG3202Sx2pcs)