SG3202S
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 2 combinations (SG3202S) 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℃~75℃

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

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

2%+1%FS(@ TA -40~70℃)

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

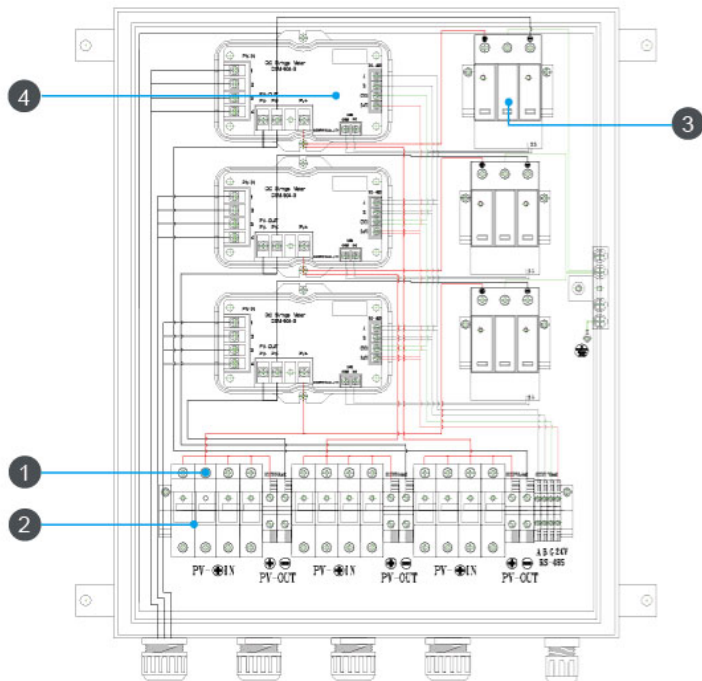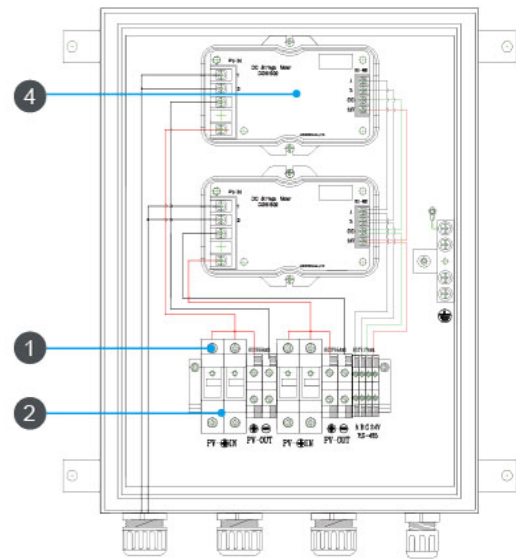| Model Name		SG3202S
Rated Current		2 Strings; 10A for each String; Max. 20A Total
Rated Voltage		900Vdc
Class of Accuracy (kWh.W.V.A)	@ TA 0~40°C	1%+0.5%FS
	@ TA - 40~70°C	2%+1%FS
Measure Display	Voltage	40Vdc~1,000Vdc
	Total Current	0.1A~30A
	Total Power	0.1kW~30kW
	Total KWh	0.1 kWh ~99,999 kWh
	Each String Power	0.01 kW~15kW
	Each String Current	0.01 A~15A
Settngs for no. & ID		Use the DIP Switches
Comm. Interface		RS-485(Series)
Environment Temp		Measure & Record Temp. -40 °C ~75 °C
SPD Detection		N/A
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

SG3202S
XX

Strings number

Strings number	3202	2 combinations

Application Diagram

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

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

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