

SG3208S DC Strings Meter



The Solar PV Strings Meter (DC Strings Meter) is capable of measuring 1~8 sets of strings of solar panel, and sum up the generated power & accumulated total power generation for up to 8 sets strings of solar panel. The Solar PV Strings Meter can also measure power generation of each string and real-time current, voltage and kWh. Through the RS-485 interfaces, 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. The Meter has wide service range, which can endure extended range of temperature and operate in a harsh environment with high accuracy and stability.

Features

Wide Voltage : 40Vdc~1,000Vdc

Low Consumption : Below 1W (incl. loop voltage measuring consumption)

Wide Temp. : -40 °C ~75 °C

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

Measuring Precision

0.5%+0.5%FS(@ TA 0~40 °C); 1%+0.5%FS(@ TA -40~70 °C)

Wide Range Measurement :

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

Current Range 0.1A~20A, Precision 0.01A;

Power Range 0.01kW~20kW, Precision 0.001kW;

Energy Range 0.1kWh~99,999kWh

Power Source : From outer 24~48Vdc supply.

Operation : Use DIP switches to choose from 1~254 for ID, and for combination no..

Technical Specifications

Model Name	SG3208S	
Rated Current	Each 20A, Total Max. 160A	
Rated Voltage	900Vdc	
Class of Accuracy (kWh.W.V.A)	@ TA 0~40 °C	0.5%+0.5%FS
	@ TA -40~70 °C	1%+0.5%FS
Measure Display	Voltage	40Vdc~1,000Vdc
	Total Current	0.1A~160A
	Total Power	0.1kW~160kW
	Total kWh	0.1kWh ~99,999 kWh
	Each String Power	0.01kW~20kW
	Each String Current	0.01A~20A
SPD Indicator	1 Red LED	
Setting for no. & ID	on-board setting DIP switches	
Comm. Interface	RS-485(Series)	
Environment Temp.	Measure & Record Temp. -40 °C ~75 °C	
Power Consumption	1W (external 24Vdc~48Vdc)	
Working Temp. & Humidity	-40 °C~75 °C · 5%~95%RH	
Material	V-0, 105 °C flame retardant material	
Dimension W x H x D (mm)	211.5 x 75.5 x 35.5	

Notes:

Specifications in this datasheet are subject to change without prior notice

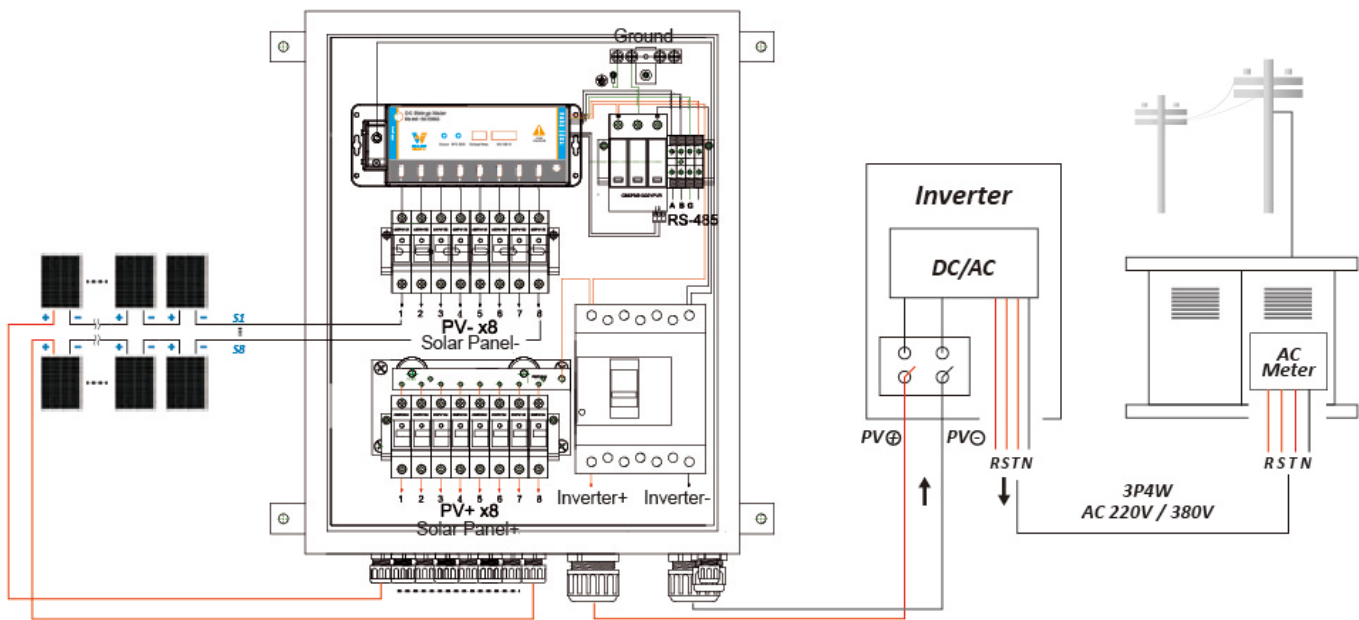
Model No. Description

SG3208S

Communication interface

Communication interface	S	RS485 Inductance isolation interface
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Application Diagram



The main material table of intelligent DC String meter combiner box

item	Description	Quantity	Remark
1	IP65 FRP Box	1	dimension: 400(W) x 500(H) x 200 (D)mm
2	DC String Meter SG3208S	1	capable of measuring 1~8 sets of strings of solar panel
3	DC Breaker	1	250A / 10 00V
4	Surge Absorber	1	40kA / 1000 V
5	Solar PV Fuses and Fuses Holder	16	15A / 30A · 1000 V
6	RS-485 EU Terminal Block	1	