

SG3216 Series DC Strings Meter



The Solar PV Strings Meter (DC Strings Meter) is capable measuring 1~16 sets of strings of solar panel and sum up the generated power & accumulated total power generation. It can also measure individual power of each string, then by means of built-in programs calculation, and show every string's current power and percentages of efficiency directly on LCD display. You may also view the readings of the meter from built-in LCD by using rotation button. Further more, by means of RS-485 or ZigBee interfaces, you may use PC to communicate and collect data from meters and setup a remote monitoring system.

Features

Wide Voltage : 150Vdc~1,000Vdc

Low Consumption : Below 3W (incl. loop voltage measuring consumption)

Wide Temp. : -40 °C ~75 °C

High Accuracy : Energy (kWh) & Power (W, V, 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 150V~1,000V, 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

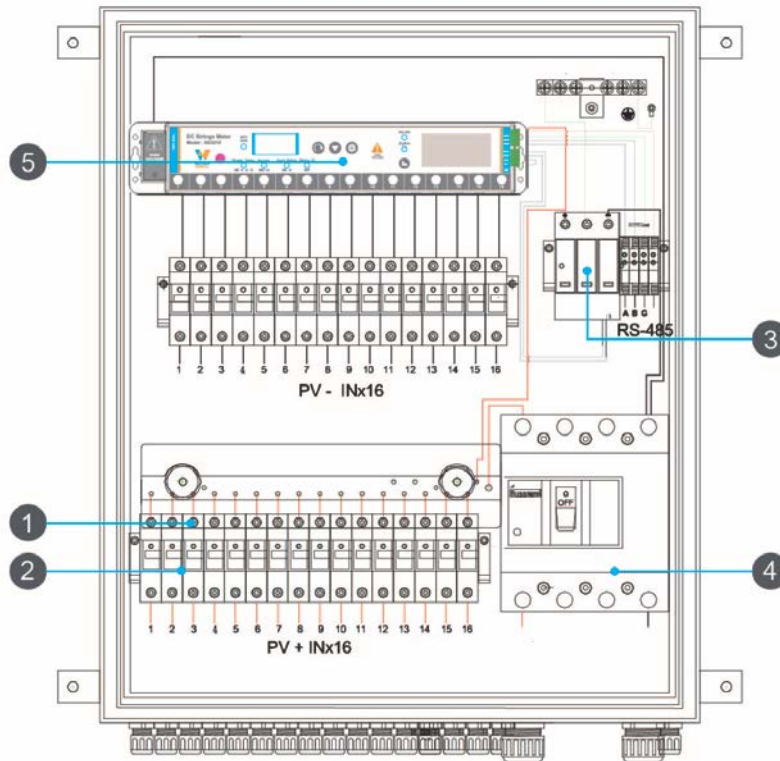
Power Source : From PV Panels.

Operation and Display : With rotate and detailed information bottom as well as blue backlight LCD display, the Solar PV String Meter can measure and display total power generation, voltage, current and total hours of energy generation as well as the average power generation data and percentage of each string for the last 90 seconds.

Technical Specifications

Model Name	SG3216	SG3216S
Rated Current	Each 10A, 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	150Vdc~1,000Vdc
	Total Current	0.1A~160A
	Total Power	0.1kW~160kW
	Total kWh	0.1kWh ~99,999 kWh
	Each String Power	0.01kW~15kW
	Each String Current	0.01A~15A
Operation Interface	4 buttons.	
Display	5-digit LCD Display	
SPD Indicator	1 Red LED	
Setting for no. & ID	on-board setting buttons	
Communication Interface	ZigBee	RS-485(Series)
Environment Temp. Measuring	Measurement and recording ambient temperature range -40 °C ~ 75 °C	
SPD status detection	Detection of SPD action message (SPD Error)	
Power Consumption	3W @ Rated 800V	
Certification	CE EMC / Taiwan Electric Research & Testing Center / National Center of Supervision and Inspection on Solar Photovoltaic Product Quality (CPVT)	
Working Temperature & Humidity	-40 °C ~75 °C · 5%~95%RH	
LCD Display Temperature Range	-40 °C ~70 °C	
Material	V-0, 105 °C flame retardant material	
Dimension W x H x D (mm)	332 x 61 x 36	

Application Diagram



- ① Solar PV Fuse
- ② Fuse Holder
- ③ SPD, Surge Protective Device
- ④ Disconnect Switches
- ⑤ DC String Meter

Model : SG3316-65