

S1-W4G-ST

Solis Wi-Fi&Cellular Data Logger

Models: S1-W4G-ST (4 Pin) and S1-W4G-ST (USB)

Description:

A data monitoring device that plugs externally into the bottom of the inverter. The logger relays information from the inverter to the Solis monitoring platform, SolisCloud. It can connect to a local router through Wi-Fi or to a 4G cellular network. If the Wi-Fi network goes down, the logger automatically switches to using the cellular network to limit the loss of data. There are two versions of the logger, USB for S6 hybrid inverter models and 4-pin for all other Solis inverter models. Stores full inverter data offline ; max 30-day storage for 1 inverter, the storage duration decreases proportionally as more inverters are connected. Backfills complete gap-free historical data upon network recovery.

Features:

- Provides detailed system information for remote troubleshooting
- Comes with both Wi-Fi and 4G cellular communication options
- Automatically switches over to cellular when the Wi-Fi fails
- Relays system fault alarms to the Solis monitoring portal
- Supports up to ten (10) inverters per logger ^①
- 5-year and 10-year data plan options ^②
- Works with all Solis inverter models ^③
- Allows for remote firmware updates
- Quick, easy, and safe to install
- LED status indicator lights
- 2-year warranty included
- NEMA 4X outdoor rated
- Support maximum 30-day breakpoint resume transmission for single inverter

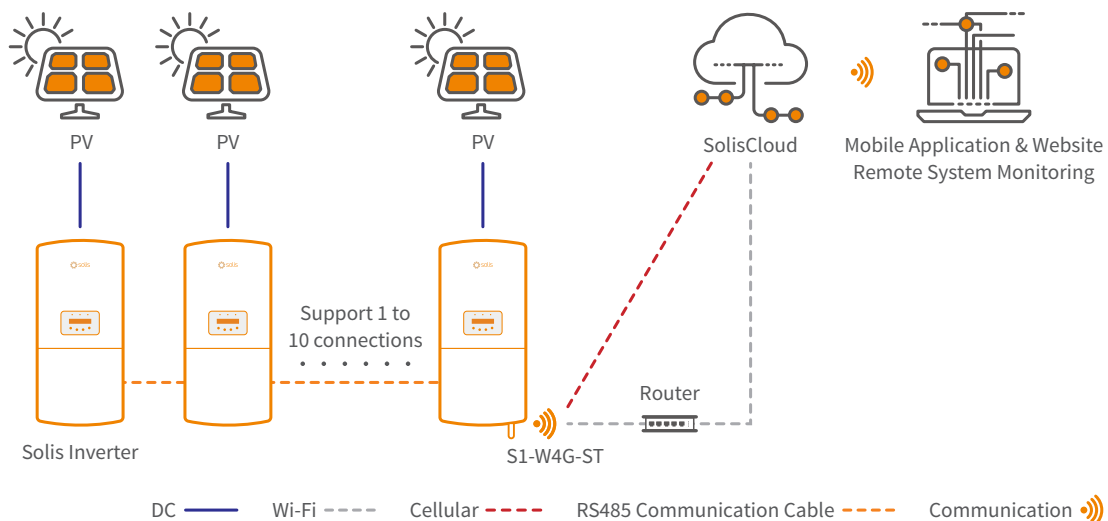


S1-W4G-ST (4 Pin)



S1-W4G-ST (USB)

Intelligent Monitoring Solution - S1-W4G-ST



^① Inverters must first be daisy-chained together with RS485. ^③ For S6-EH1P(3.8-11.4)K-H-US models, S1-W4G-ST-USB must be used.

^② Data plan cost is included in the price of the logger.

DATASHEET

Models	S1-W4G-ST (4 Pin)	S1-W4G-ST (USB)
Communication		
Supported device type	All Solis models except for S6-EH1P(3.8-11.4)K-H-US models	Only S6-EH1P(3.8-11.4)K-H-US models
Number of connected inverters ^①	≤ 10	
Data collection intervals	5 minutes	
Status indicator	3 LED Indicator Lights	
Inverter connection interface	External 4-Pin Port	External USB Port
Wireless communication	Wi-Fi: 802.11b/g/n, 2.412-2.484GHz ^② ; Cellular network: 4G/3G/2G, LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28, LTE-TDD: B38/B39/B40/B41, UMTS: B1/B2/B4/B5/B6/B8/B19, GSM: B2/B3/B5/B8	
Max. output power	Wi-Fi: 802.11b: 20dBm / 802.11g: 18dBm / 802.11n: 15dBm; Cellular network: LTE&WCDMA bands: 23dBm, GSM850/EGSM900: 33dBm, DCS1800/PCS1900: 30dBm, DCS1800/PCS1900(8-PSK): 26dBm, GSM850/EGSM900(8-PSK): 27dBm	
Near end communication	BLE4.2	
Configuration method	Mobile Application and Website	
Electrical		
Operating voltage	DC 5 V (+ / -5%)	
Typical power consumption	3 W	
Environment		
Operating temperature	-22°F to 149°F (-30 to 65°C)	
Operating humidity	5% - 95%, Relative humidity, non-condensing	
Storage temperature	-40°F to 158°F (-40 to 70°C)	
Storage humidity	< 40%	
Max. operating altitude	13,123 ft (4,000 m)	
Ingress protection	NEMA 4X	
Mechanical		
Dimensions (L × W × H)	5 × 2 × 1.3 in (128 × 50 × 34 mm)	4.4 × 2 × 1.3 in (113 × 50 × 34 mm)
Installation method	Externally Insert + Twist Lock	Externally Insert + Tab Lock
Weight	0.18 lb (80 g)	0.14 lb (65 g)
Others		
Certification	CE, FCC	

① Inverters must first be daisy-chained with RS485. ② 5 GHz Wi-Fi networks are not supported.