S3-Logger

Solis Data Loggers

S3-Logger is a data acquisition and protocol conversion device applied to PV equipment in PV power plants, which can support access of meters, weather stations and other equipment.
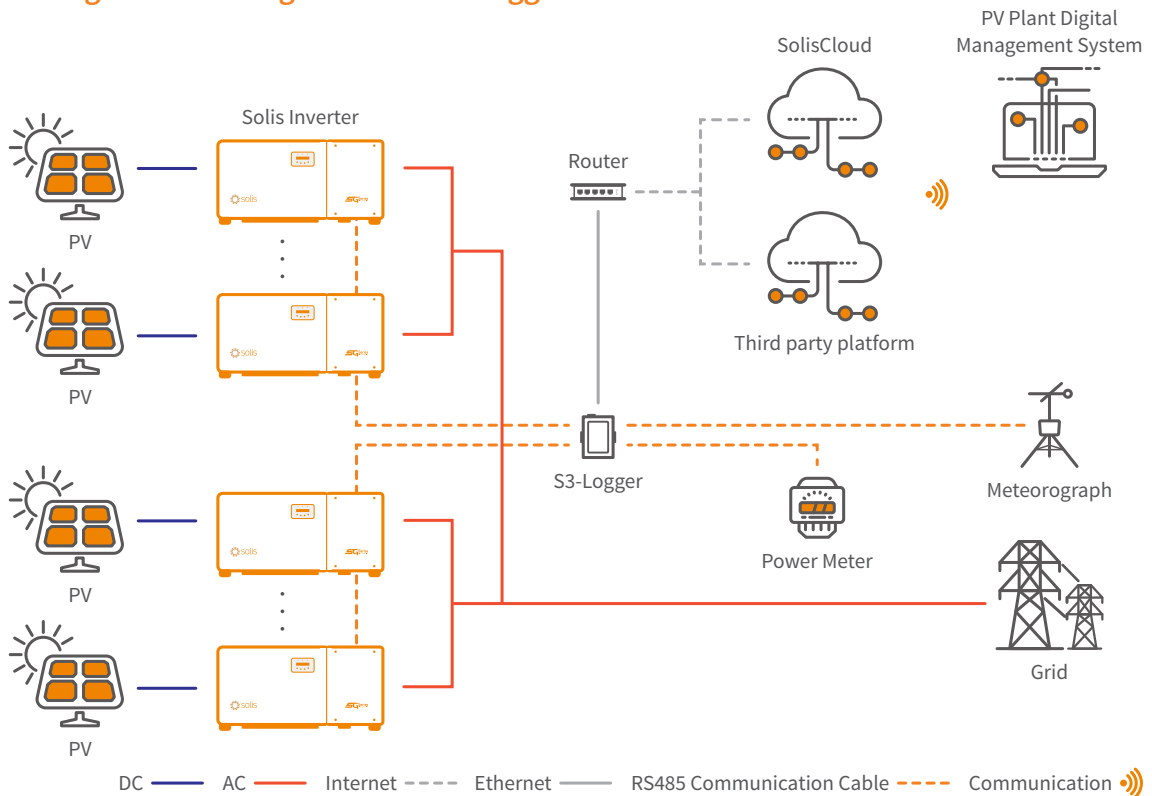
Features:

- Support data connection to local monitoring system
- Support a variety of communication protocols
- One-key address allocation and EPM function
- Inverter remote upgrade
- Support electricity meters, weather stations and other equipment access
- FTP data transfer

S3-Logger

Intelligent Monitoring Solution - S3-Logger

DC —— AC —— Internet ---- Ethernet —— RS485 Communication Cable ---- Communication •))

DATASHEET　　　　　　　　　S3-Logger

Models	S3-Logger	S3-Logger-EPM
Communication		
Supported device type	Solis inverter	
Number of connected inverters [1]	Each RS485 PORT ≤ 15	
Data collection intervals	5 minutes	
Status indicator	2 LED Indicator Lights	
RS485	COM × 4, 1200 ~ 19200 bps, communication distance ≤ 1000 m	
Ethernet communication	LAN × 1, 10 / 100 Mbps adaptive, communication distance ≤ 100 m	
Wireless communication	/	
Zero power output	/	Yes
Communication Protocol		
RS485	Modbus-RTU, IEC60870-5-103, DLT645	
Ethernet	Modbus-TCP, IEC60870-5-104	
Electrical		
AC power supply	100 ~ 240 V, 50 Hz / 60 Hz	
DC power supply	9 ~ 36 V	
Operating power consumption	5 W @ 12 VDC	
Environment		
Operating ambient temperature range	-40 ~ +80°C	
Operating humidity	≤ 85%, relative humidity, non-condensing	
Storage temperature	-40 ~ +80°C	
Max. operation altitude	4000 m	
Mechanical		
Dimensions (L × W × H)	89 × 121 × 27 mm	
Protection degree	IP20	
Installation method	Rail Mounting, Desktop installation	
Others		
Certification	CE, RoHS	

(1) Inverters must first be hand-in-hand connected by RS485.

Matching Instructions

Type	Manufacturer	Model		Connection method	Special note
Meteorograph	Jinzhou Sunshine	PC-4		RS485 connects to the P3 port on the S3-Logger	1. In addition to the above device models, the newly-matched models will continue to be updated; 2. If you need to match new meteorological or meter devices, please provide manuals, specifications, and communication protocols; 3. To match the new device, development time is about 2 weeks and the final delivery of the new firmware will be upgraded on site.
	Rainwise	PVmet-75	PVmet-200		
	SevenSolar	3S-IS V7			
	Ingenieurburo	Si-RS485TC-2T			
Meter	Acrel	DTSD1352	ADL3000-E-B	RS485 connects to the P4 port on the S3-Logger	
	Janitza	UMG-96RM	UMG-512		
	Mikro	RX380			
	MEATROL	EM231			
	Schneider	PM5100	iEM3000		
		iEM3255	EM6400		
	Iskra	MC774			