

## Contact

IGEN Tech Co., Ltd.

 Add: Block F4, China IoT International Innovation Park, No. 200,  
Linghu Avenue, Wuxi, Jiangsu, P. R. China

 Sales Inquiries: [info@solarmanpv.com](mailto:info@solarmanpv.com)

 After-sales Inquiries: [customerservice@solarmanpv.com](mailto:customerservice@solarmanpv.com)

 Website: [www.solarmanpv.com](http://www.solarmanpv.com)

# Stick Logger (Ethernet)

Product Model: **LSE-3**



# Introduction

By collecting operating data and power generation of inverter, stick logger (Ethernet) can run a long-term and efficient monitoring of PV system.

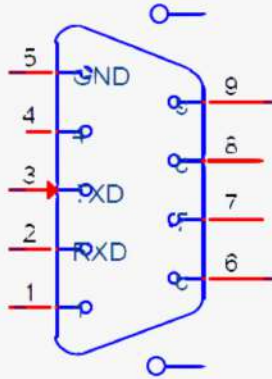
Logger can connect to single inverter via multi-type interfaces, which enables to collect all the data of PV system from the inverter. Meanwhile, remote monitoring cloud platform (SOLARMAN Portal) provides powerful data support for the logger. Logger sends the data to the monitoring platform via Ethernet. The real-time status and historical data can be displayed with graphs, enabling intuitive and clear understanding of PV system. Furthermore, customized alerts can notify users of any malfunction or defect immediately via SMS and e-mails, which realizes the management of PV system at anytime and anywhere, also simplifies the maintenance significantly.

# Product Parameter

Catalog	Parameter	Value
Hardware Parameter	Data Interface	RS232
	Remote COM Interface	LAN
	Working Voltage	DC 5V-DC12V

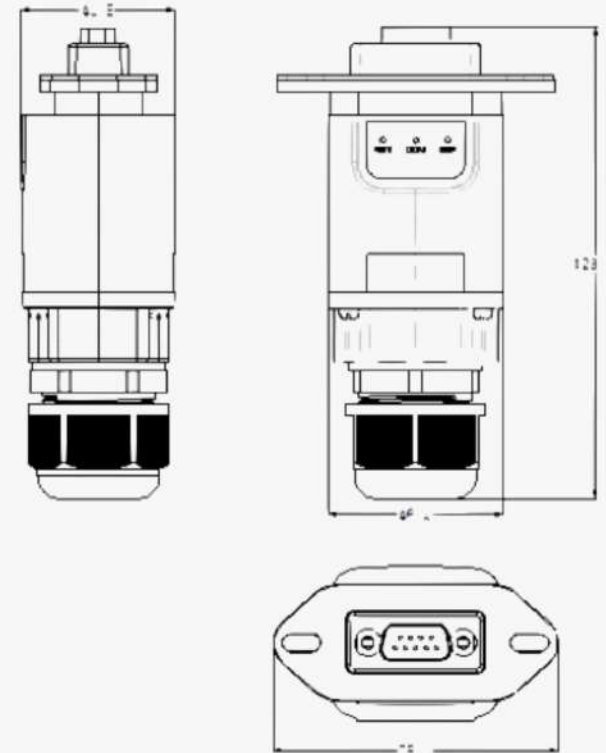
Hardware Parameter	Max. Working Voltage	DC 15V
	Max. Working Power	1W
	Indicator Light	One connect to inverter
		One connect to server
		One shows logger status
	Data Storage	2MBYTE FLASH
	Working Temperature	-30°C~+70°C
	Working Humidity	< 90% (No Condensation)
	Storage Temperature	-45°C~+90°C
	Storage Humidity	<40%
External Interface	DB9	
Software Parameter	No. of Connections	One
	Serial Communication Rate	9600bps (1200-115200bps Configurable)
	Data Transmission Interval	Default: 5 mins (1-15 mins Configurable)
	Configuration	AT+Instruction Set
		Remote Server
Firmware Upgrade	Remote Upgrade	
Others	Real-time control, data-resuming	

## Module Interface Identification



## Product Size (Unit: mm/Accuracy: ±2%)

Pin	Description	Network Name	Type	Detail
2	Receiving data	RXD	I	RS232 receiving (RS485_ B line, TTL_RX)
3	Sending data	TXD	O	RS232 sending (RS485_ A line, TTL_TX)
1、4、6、7、8	Not used	NC		Not used
5	Power GND	GND	Power	External Power: GND
9	Power VCC	DC_VIN	Power	External Power: DC 5V-12V (at least 1W supply)





## Product Pictures



Front View



Back View






Side View

## LED Indicator Lights Instruction

After logger connected to the device, check the status of NET light, COM light, SER light and whether there are data on the platform.(There is only one light for each NET, COM and SER light.)

The normal operation status after the stick logger powered on:

- 1.Initializing: SER light extinguishes after the stick logger powered on;
- 2.Fail to connect to server: NET light flashes around 2s (On 6s/Off 6s);  
Connect to server: NET light flashes (On 1s/Off 1s);
- 3.Successful communication with inverter: COM light keeps on around 5s.

Light	Implication	Instruction
	Logger network status	1.Off: Fail to connect to network; 2.On: Connect to network.
	Communication status with inverter	1.Off: Fail to communicate with inverter; 2.On: Connect to inverter.
	Communication status with server	1.On 6s/Off 6s: Fail to connect to server; 2.On 1s/Off 1s: Connect to server.