

Product Specification Report

Supplier Name:	IGEN Tech Co., Ltd.	
Customer Name:		
Customer Part No.:		
Product Name:	DIN-Rail Logger (WiFi)	
Supplier Part No.:		
Product Type:		
Firmware Version:		
Web Version:		
Inverter Type:		
Inverter Protocol:		
Effective Date:		
Customer Approval	Supplier Approval	
Confirmed By	Approved By	

Version	Note	Updated Time	Updated By
1.0			

Introduction

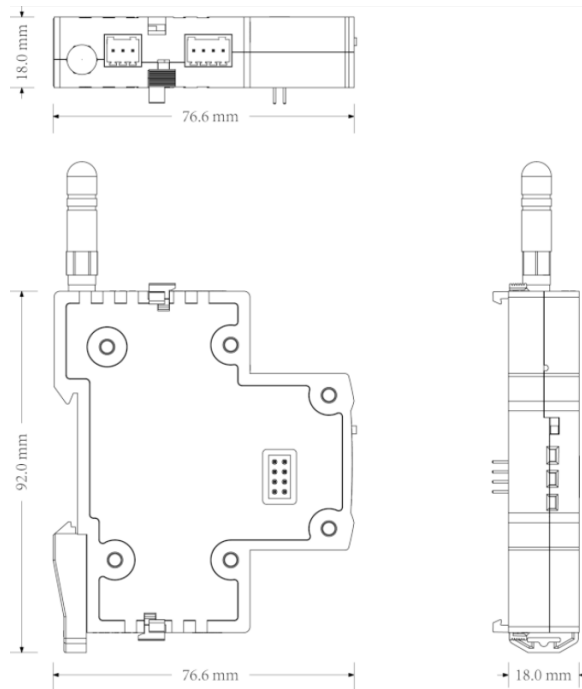
By collecting operating data and power generation of inverter, DIN-Rail Logger(WiFi/ETH) can run a long-term and efficient monitoring of PV system.

The logger can connect to multiple inverters, 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 WiFi or 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-mail, which realizes the management of PV system at anytime and anywhere, also simplifies the maintenance significantly.

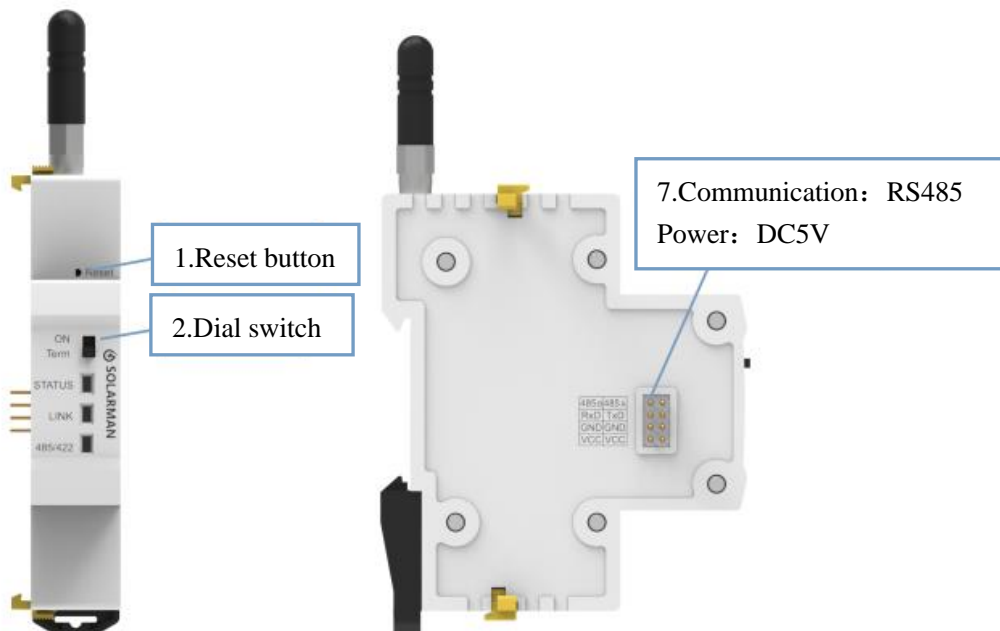
Product Parameter

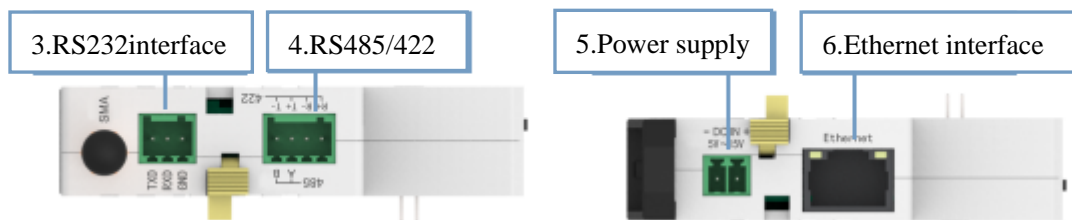
Parameter	
No.of inverters	1
Inverter communication interface	RS485 /RS422/RS232
Remote communication interface	WiFi/Ethernet
Serial communication rate	Default: 9600bps (1200 ~ 115200 bps Configurable)
Wireless standard	802.11 b/g/n
Wireless working frequency	2.412GHz~2.484GHz
Wireless transmit power	802.11b: +20dBm(MAX)
	802.11g: +18dBm(MAX)
	802.11n: +15dBm(MAX)
Data collection interval	Default: 5 min / 1-15min optional
Parameter setting	Serial AT Instruction
Data access	(RS485 / RS422 /RS232) /Remote server
Indicator light	One connected to device
	One connected to server
	One shows device running status
Data storage	Default: 2M
Electrical parameter	
Working voltage	DC5V-12V(+/-5%) DC15V (Max.)
Working power	1.5W
Environment	
Working temperature	-30~+70℃
Working humidity	Relative humidity: 10%-90%, no condensation
Storage temperature	-45℃~+90℃
Storage humidity	<40%
IP Grade	IP20
Installation	DIN-Rail

Product size



Interface Identification

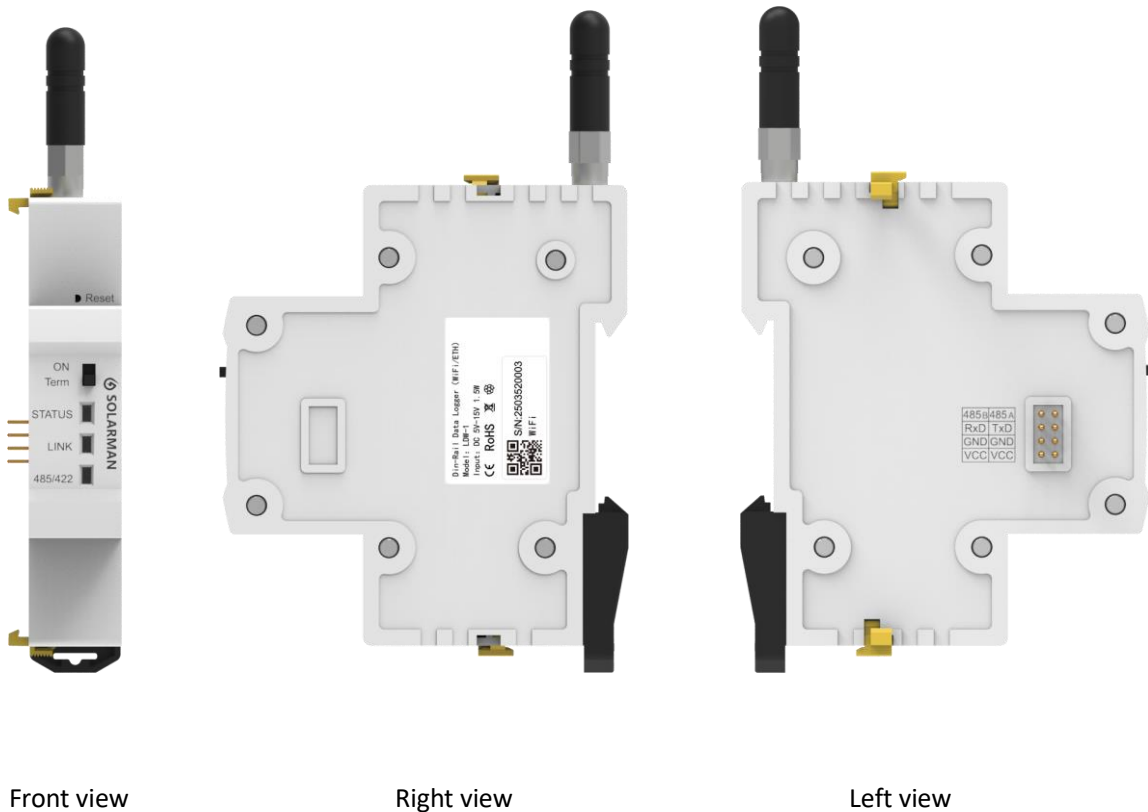




Region		Picture	Description	Network name	Instruction
1	Reset button		Press		Reboot system
2	485 terminal matched resistance: 120Ω		ON/OFF		ON: connected, otherwise disconnected. (Default Position: Term)
3	PIN1		RS232 Sending Data	TXD	RS232_TX
	PIN2		RS232 Receiving Data	RXD	RS232_RX
	PIN3		GND	GND	GND
4	PIN1		RS485 B Sending and Receiving Data	485B-	485 Bus B/422 Bus T-
	PIN2		RS485 A Sending and Receiving Data	485A+	485 Bus A/422 Bus T+
	PIN3		RS422 R- Receiving Data	R-	422 Bus R-
	PIN4		RS422 R+ Receiving Data	R+	422 Bus R+
5	PIN1		GND	GND	External power: GND
	PIN2		Power VCC	DC_VIN	External power: DC5V ~DC12V (At least 1.5W power supply/DC 15 at max.)
6	RJ-45		Network interface	Ethernet	RJ45 Link
7	PIN1		RS485 B Sending and Receiving Data	485B-	485 Bus B
	PIN2		RS485 A Sending and Receiving Data	485A+	485 Bus A

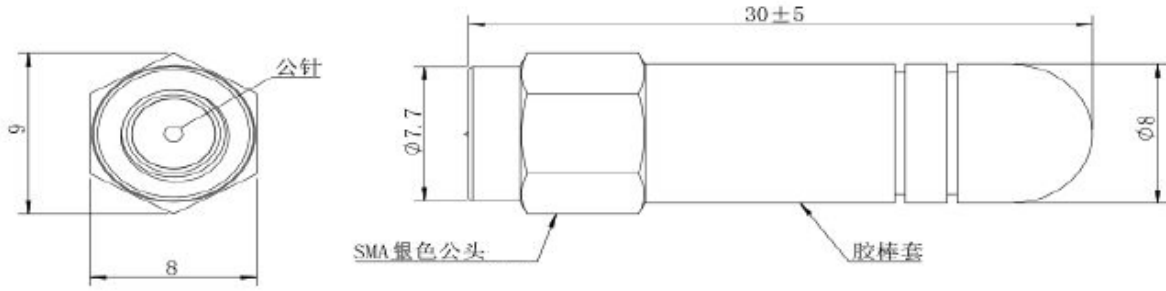
	PIN3		NC	NC	NC
	PIN4		NC	NC	NC
	PIN5		GND	GND	External power: GND
	PIN6				
	PIN7		Power VCC	DC_VIN	External power: DC5V
	PIN8				~DC12V (At least 1.5W power supply/DC 15 at max.)

Product Picture



External Antenna

The applicable frequency range for external Antenna (SMA) is 2.412GHz~2.484GHz.



WiFi rubber case small antenna

External rubber case small antenna electrical performance index:

Classification	Performance Parameter
Frequency rang-MHz	2.412GHz~2.484GHz
VSWR	≤1.5
Input Impedance-Ω	50Ω
Gain-dBi	1.5dBi
Working Temperature-°C	-40°C~+85°C
Antenna Color	Black
Input connector	SMA internal screw thread inner needle

Package

External package



Interior package



Components: Connecting terminal x3, DIN-Rail Logger, P-needle

Firmware Configuration

1	Domain Name	access1.solarmanpv.com (solarman 3.0)
2	IP	47.102.152.71 (solarman 3.0)
3	Port No.	10000 (solarman 3.0)
4	APN	---

Contact

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Product List

No.	Name	Quantity	Note
1	DIN-Rail Logger (WiFi/ETH)	1	--
2	Connecting Terminal	3	--
3	P-needle	1	