

Product Specification Report

Supplier Name:		IGEN Tech Co., Ltd.	
Supplier Part No.:			
Customer Name:			
Customer Part No.:			
Product Name:		Pro Logger	
Product Type:		LP-2	
Data Package:			
Web Version:			
Firmware Version:			
Inverter Type:			
Inverter Protocol:			
Effective Date:			
Customer Approval		Supplier Approval	
Confirmed By	Approved By		

Version	Note	Updated Time	Updated By
1.0			

Introduction

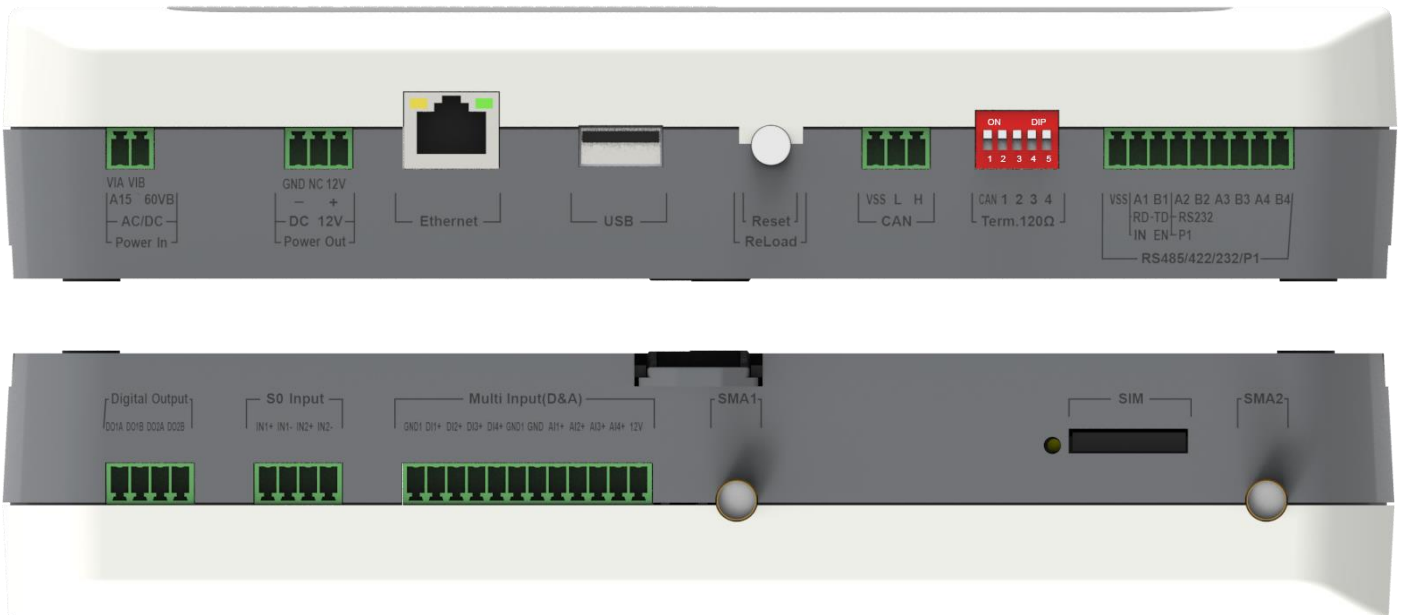
Pro Logger (LP-2) is applicable to PV projects, which can connect to inverter, combiner box, weather station, smart meter and ect,. It also features in lightning protection. It is specially designed for PV system monitoring, which is capable of receiving and executing network scheduling command. The product can sends the data to the monitoring platform via 4G or LAN. 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.

Parameter

Catalog	Parameter	Value	
Wireless Parameter	Remote COM Interface	4G/LAN	
	Working Frequency	LTE-FDD、LTE-TDD、WCDMA、TD-SCDMA、CDMA、GSM	
	Transmit Power	Class 4(33dBm±2dB) for GSM900 Class 1(30dBm±2dB) for DCS1800 Class E2(27dBm±3dB) for GSM900 8-PSK Class E2(26dBm±3dB) for DCS1800 8-PSK Class 3(24dBm±1dB) for CDMA BC0 Class 3(24dBm+1/-3dB) for WCDMA bands Class 2(24dBm+1/-3dB) for TD-SCDMA bands Class 3(23dBm±2dB) for LTE-FDD bands Class 3(23dBm±2dB) for LTE-TDD bands	
	Antenna Option	External SMA-4G Sucker Antenna	
Hardware Parameter	Data Interface	One-way RS232/Four-way RS485/422	
	Input Voltage	DC15V ~DC60V	
	Static Consumption	<10W	
	Indicator Light		Power supply light
			Connect to device
			Running status
			GPRS network
	Data Storage	NAND FLASH	
	SIM Card	One-way MicroSIM card slot (No card)+One-way chip card	
	Working Temperature	-20℃ ~+60℃	
	Working Humidity	10%-95%, no condensation	
	Storage Temperature	-45℃ ~+85℃	
	Storage Humidity	<40%	
	Size	240mm×118mm×49mm	
Installation	DIN-Rail		
No. of Connections	Many devices		

Software Parameter	Serial Communication Rate	Default: 9600bps (1200-57600bps optional)
	Data Transmission Interval	Default: 5 mins (1-15 mins optional)
	Configuration	AT+Instruction set
		Local web configuration
		Remote server
	Firmware Upgrade	Remote update
Others	Real-time Control, Data resuming	

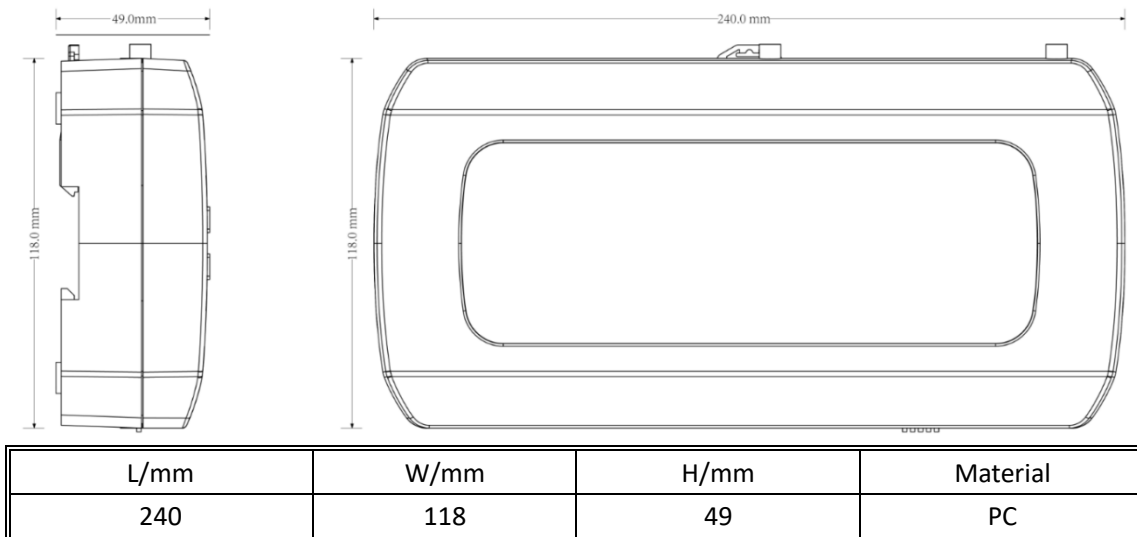
Interface Identification



Name	Identification
Power In	Voltage Input: DC 15V~60V/Power: <10W (Make no distinction between positive and negative electrode)
Power Out	Voltage Output: DC 12V 500mA
Ethernet	Ethernet: 10/100M (adaptive)/RJ45/max. communication distance: <100m
USB	1 mini USB/USB2.0 protocol/<60MBps/max. conductor length<5m
Reload/Reset	Reboot (Press for 3s) Restore factory settings (Press for 10s)
CAN	9600bps (4800~115200bps configurable)/max. connected number: 256 (configurable)
Term.120Ω	Terminal matching switch

RS485/422/232/P1	4-way sending&receiving interfaces/9600bps (4800~115200bps configurable)/conductor length<1000m
SMA2	Antenna interface
SIM	4Gmodule SIM card slot (big)
SMA1	Antenna interface
Multi Input(D&A)	Reserved
SO Input	Reserved
Digital Output	Reserved

Product Size



Product Pictures



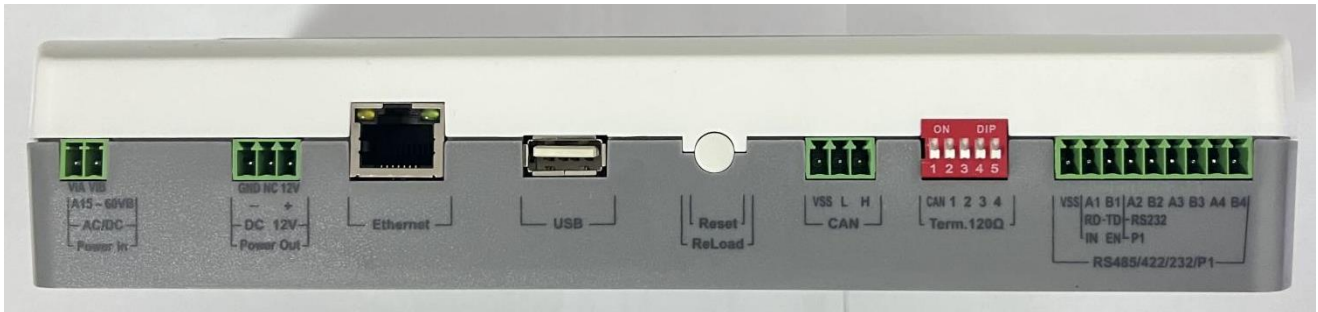
Front View



Back View



Top View

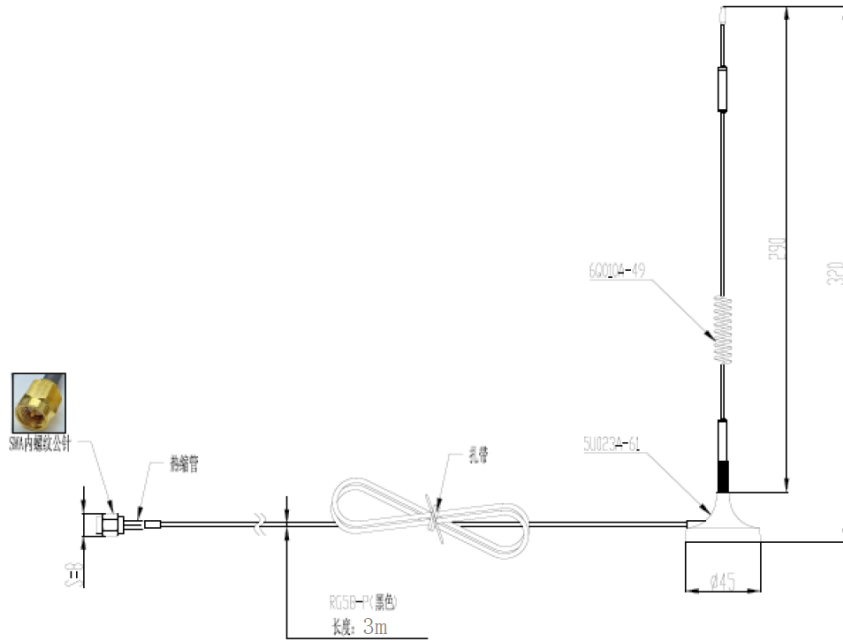


Bottom View

Antenna

External embedded SMA sucker antenna needs to connect to frequency band of GSM850/ EGSM900/ DCS1800/

PCS1900MHz/ CDMA800/ CDMA2000/ WCDMA900/ WCDMA2100/ WIFI(2.4G)/ TD-SCDMA2100/ LTE according to 4G communication standard.



Antenna Electrical performance index:

Classification	Performance Parameter
Frequency rang-MHz	2G/3G/4G/WIFI
VSWR	≤3.0
Input Impedance-Ω	50Ω
Gain-dBi	4dBi
Working Temperature-°C	-40°C~+85°C
Antenna Color	Black
Input connector	SMA

Packing

Size: 295*190*85mm



Firmware Configuration

Direct Data Transmission		
1	Domain Name	data1.solarmanpv.com (solarman 3.0)
2	IP	47.88.8.200 (solarman 3.0)
3	Port No.	10000 (solarman 3.0)
4	APN:	None
Data Forwarding		
47.102.152.71,access1.solarmanpv.com,10000 (solarman 3.0)		

Contact

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Product List

No.	Name	Quantity	Note
1	Pro Logger	1	--
2	ON-OFF	1	HDR-100-24
3	Circuit breaker	1	NXB-63-2P C16A
4	Power Line	2	L=2000MM
5	LTE Sucker Antenna	2	SMA full band, length: 3m
6	Terminal	7	2Pin X 1, 3Pin X 2, 4Pin X 2, 9Pin X 1, 12Pin X 1,
7	Expansion Screw	2	2.9*32