

# LS4G-6-G

## Stick Logger



LS4G-6-G is a cost-effective IoT product specially designed for solar industry. It can connect to single inverter, battery or other devices via various interface and transmit the collected data to the remote/local monitoring platform via 4G/WiFi. Furthermore, it realizes the functions such as data collection and reporting, configuration deployment, firmware upgrade, real-time control and etc.

## I Applicable Scenarios

Suitable for residential and small/medium-sized C&I solar plant in Europe, the Americas, Oceania, Africa, and the Middle East.

- Implement real-time monitoring and management of new energy device
- Realize device local/remote upgrade
- Analyze and optimize production data to achieve refined O&M
- Timely fault location and troubleshooting

## I Features



### Easy to use

- Upload data and fault information in seconds
- Support local/remote debugging and diagnosis with or without network
- OneQR debugging and acceptance



### High Compatibility

- Compatible to multiple inverter interfaces
- Embedded twin model, enabling quick customization and adaptation



### Reliable&Stable

- IP66 water-resistant
- Support breakpoint resuming



### Excellent Performance

- Upgrade to 4G and 6th generation WiFi technology
- Customized external antenna to enhance 4G signal quality
- Two kind of SIM cards can be selected to cope with the coverage differences of different operators
- Support four-way direct transmission with data encrypted
- Support IV curve fault diagnosis and recording



### Compliant with EN 303 645

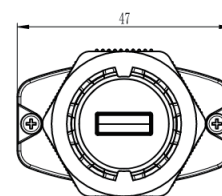
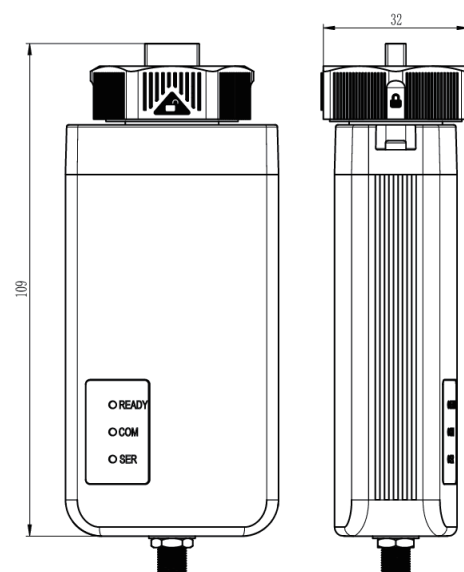
- Compliant with ETSI EN 303 645 standard
- Support power grid dispatch, e.g. CSIP-US/AUS

# I Product Parameter

Communication Parameter	
Remote Communication	4G+2G+WiFi 6
4G Working Frequency	EMEA/Brazil/Australia/New Zealand: 4G CAT1:LTE-FDD B1,B3,B5,B7,B8,B20,B28; 2G:GSM B2,B3,B5,B8; Latin America: 4G CAT1:LTE-FDD B2,B3,B4,B5,B7,B8,B28,B66; 2G:GSM B2,B3,B5,B8; North America: 4G CATM1:LTE-FDD B1,B2,B3,B4,B5,B8,B12,B13, B18,B19,B20,B25,B26,B27,B28,B66,B85; 2G:GSM850,EGSM900,DCS1800,PCS1900;
4G Transmitting Power	LTE-FDD: Class3(23dBm±2dB)
WiFi Standard	802.11b/g/n/ax
WiFi Frequency Range	2.412GHz-2.472GHz (CH1~CH13)
WiFi Transmitting Power	802.11b:+17dBm±1.5dBm(@11Mbps) 802.11g:+15dBm±1.5dBm(@54Mbps) 802.11n:+14dBm±1.5dBm(@HT20,MCS7)
Bluetooth Standard	BLE5.0
Bluetooth Frequency Range	2.402GHz-2.480GHz
Bluetooth Transmitting Power	Max 7dBm

Hardware Parameter	
External Interface	USB2.0, Aeronautical head (Big/Small), USB3.0, DB9
Data Interface	USB, RS485, RS232, TTL
Data Storage	8MB
SIM Card	Chip card/Plug-in card
Antenna	4G external antenna
Working Voltage	DC 5-12V (±5%)
Working Power	≤4W
Indicator Light	One shows stick logger running status One shows communication status with inverter One shows communication status with server
Working Temperature	-30°C~+70°C
Working Humidity	10%-90%, no condensation
Storage Temperature	-45°C~+90°C
Storage Humidity	<40%, no condensation

Software Parameter	
No. of Connections	One
Serial Communication Rate	Default: 9600bps(1200-115200bps optional)
Data Transmission Interval	Default: 5 mins
User Configuration	Remote server/APP configuration
Firmware Upgrade	Local/Remote upgrade
Real-time Control	✓
Breakpoint Resuming	✓



Unit: mm, Accuracy: ±2%

## IGEN Tech Co., Ltd.

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