# Wireless Data Logger

Inverter Logger


Inverter Logger is mainly used in distributed PV power station. It records inverters' operation status and the generated power to make a long–term monitoring of the PV system. As a high cost performance product, Inverter Logger only needs to be invested a little but greatly promotes the rate of return on investment of the system.

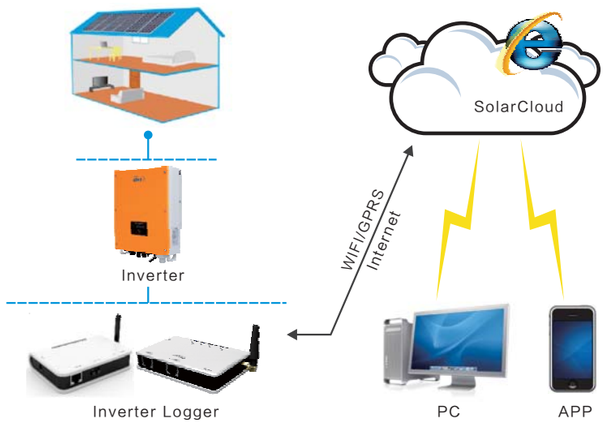
## Features

- Supports diversified data format of inverters
- Ethernet / Wi–Fi / GPRS communications available
- Support maximum 64pcs inverters cascade
- Easy operating, plug & play
- Can be connected to additional equipments such as ammeter, radiation transducer and temperature sensor
- More than 25 years' datas can be stored
- Supports SolarCloud monitoring
- Built–in Web Server, supporting offline access

## Applications

### Monitoring solutions for residential roof power plants

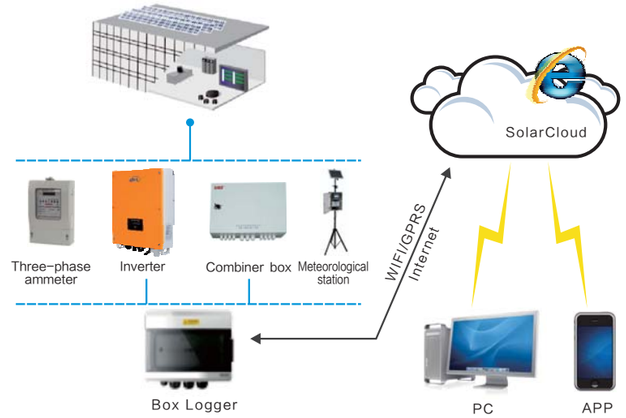
A rooftop PV power station on residential building typically features a capacity of 5KW. Normally a family home installs about 1 to 4 pcs inverters, configures with 1pcs Inverter Logger for their data acquisition. The Inverter Logger establishs communication with inverters through special RS485 cable, and uploads datas to SolarCloud platform through Ethernet / Wi–Fi /GPRS communications.






### Monitoring solutions for commercial roof power plants

A rooftop PV power station on commercial building typically features a capacity of about 5KW to 1MW. Besides inverters, there is other corollary equipment such as smart meters, smart combiner boxes and meteorological station. Users can use Box Logger for data acquisition in this application. Box Logger has two independent RS485 ports. It supports maximum 64pcs equipment access and customized access of the third–party equipment such as smart meters, smart combiner boxes and meteorological station. At last Box Logger uploads datas to SolarCloud platform through Ethernet / Wi–Fi /GPRS communications.






## Technical Data

| MODEL | | Inverter Logger (Wi–Fi / Ethernet) | Inverter Logger (GPRS) | Box Logger |
|---|---|---|---|---|
| Power supply | Power input | 5 Vdc | 5 Vdc | 85 ~ 264 Vac |
| | Power output | – | – | 12 Vdc / 5 Vdc 500 mA |
| Operating environment | Operating temperature | –20℃ ~ +65℃ | –20℃ ~ +65℃ | –40℃ ~ +85℃ |
| Indicator lights / buttons | Indicator lights | 4 LED | 4 LED | 5 LED |
| | Buttons | 1 reset button | 1 reset button | 1 reset button |
| Storage | Storage | 256Kb EEPROM + external 8G TF card | 256Kb EEPROM + external 8G TF card | Inside 128MB FLASH + outside 8G TF card |
| Data Transmission Interfaces | RS485/422 | 1*RS485 / RS422 / RS232 | 1*RS485 / RS422 / RS232 | 2*RS485 / RS422 |
| | Analog input | – | – | 6* analog input: 0 ~ 5 V, 0 ~ 10 V, 0 ~ 20 mA, 4 mA ~ 20 mA, 1* PT100 / PT1000 |
| | Analog output | – | – | – |
| | Digital input | – | – | 2* optical coupling isolation input |
| | Digital output | – | – | 2*relay output |
| | USB | – | – | 1*USB 2.0 |
| | CT interface | – | – | – |
| Communications | Ethernet | 1*100 M network Interface | – | 1*10 M / 100 M auto –sense network Interface |
| | GPRS | – | 1*GPRS | 2*GPRS + Bluetooth |
| | Wi–Fi | 1*Wi–Fi | – | – |
| | RF | – | – | 1*RF module / 2.4G |
| | Expansion interface (EXI) | – | – | – |
| Software | Modular remote upgrade | √ | √ | √ |
| Others | Dimensions (mm) | 110 × 80 × 26 | 110 × 80 × 26 | 273 × 273 × 110 |
| | IP rating | IP 21 | IP 21 | IP 66 |
| | Clock | RTC clock | RTC clock | RTC clock |
| | EMC testing | EN61000–4–2; EN61000–4–4; IEC61000–4–5 | EN61000–4–2; EN61000–4–4; IEC61000–4–5 | EN61000–4–2; EN61000–4–4; IEC61000–4–5 |

Disclaimer:
- These data in this document are tested under specified conditions. It may result in difference between actual results and these data due to some uncertain factors. The statement about this product is for reference only. It makes no representation or warranty.
- All specifications subject to change without notice.