SunSniffer
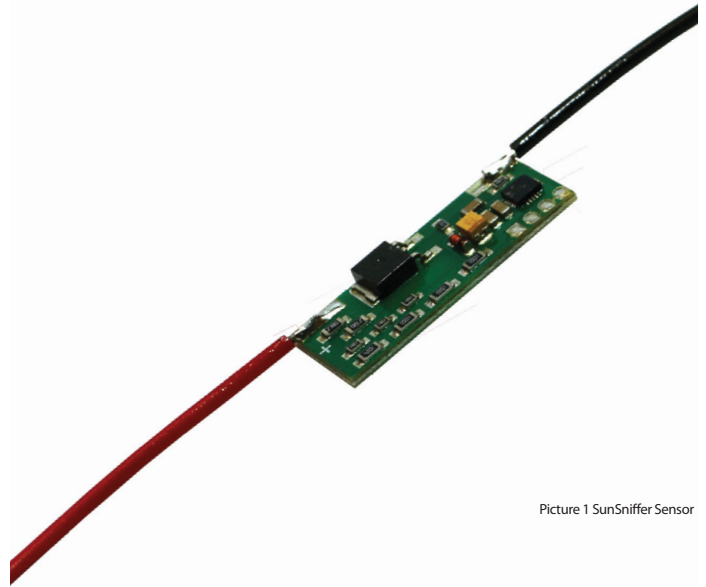# SENSOR

Version H

The heart of the SunSniffer technology for highly accurate detection of module data.
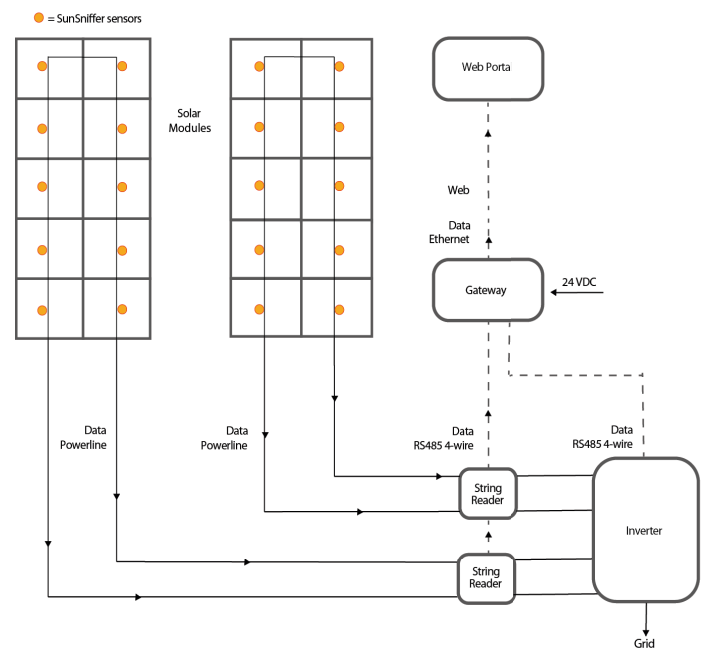
SunSniffer®
inside

Picture 1 SunSniffer Sensor

The heart of the SunSniffer technology, the Sensor is deployed for module-level monitoring in solar panels. Installed in the junction box, it assolves the function of telemetry data collection and transmission:

- voltage (V);
- temperature (t°C);
- solar panel serial number.

Picture 2. SunSniffer Sensor - example of positioning in junction box

Picture 3. SunSniffer Technology Scheme

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INSTALLATION:

The sensor is easily installed:

Red wire has to be connected to module + terminal

Black wire has to be connected to module - terminal.

## TECHNICAL SPECIFICATIONS:

Dimensions (L x W x H)	38.0 x 12.5 x 4 mm
Working voltage	10 ~ 45± 0.2 V
Temperature	-40 ~ + 85 ± 2 °C
Current consumption	≤ 10 mAmp
Serial Number length (SN)	30 bit
Data transmission interval (T) , including:	30 ± 0.4 sec
- Temperature transmission interval ($T_{t°c}$)	4 ± 0.4 min
- SP full serial number transmission interval (T_{SNfull})	4± 0.4 min
- Voltage transmission interval (T_V)	30 ± 0.4 sec

Red wire (+)　　　　　　　　　　　　Black wire (-)
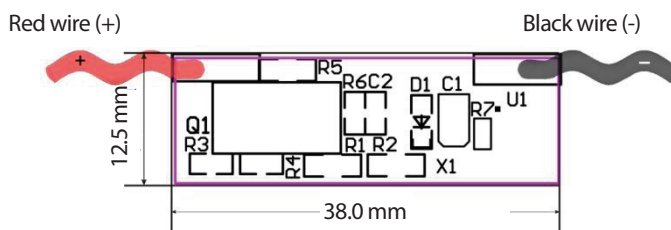
Picture 4. Sensor technical drawing and dimensions

The SunSniffer sensor transmits data with 30 seconds interval. There are three types of data sent:
1) Module full serial number SN; 2) Module voltage V; 3) Module Temperature t°C.
The sequence is repeated every 4 minutes. Please refer to data packet sequence below.
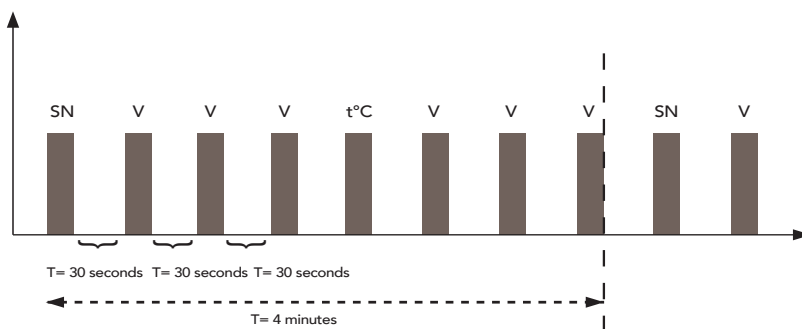
Picture 5. Sequence of data packets

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