



SunSniffer®

SunSniffer® Retrofit Box

The heart of the SunSniffer® technology for highly accurate detection of module data - easily retrofitted to already installed plants.

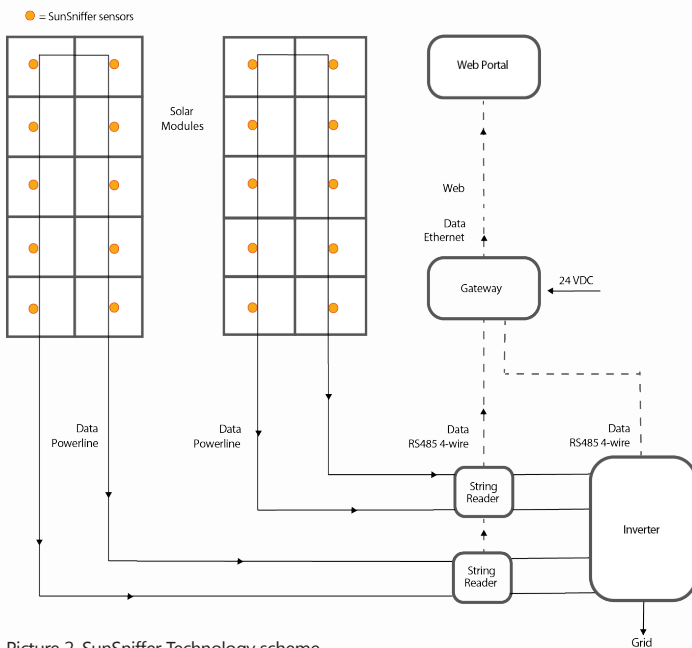


The heart of the SunSniffer® technology, the Sensor is deployed for module-level monitoring in solar panels. Installed in the special Retrofit housing, it can easily be connected to the modules and assolves the function of telemetry data collection and transmission:

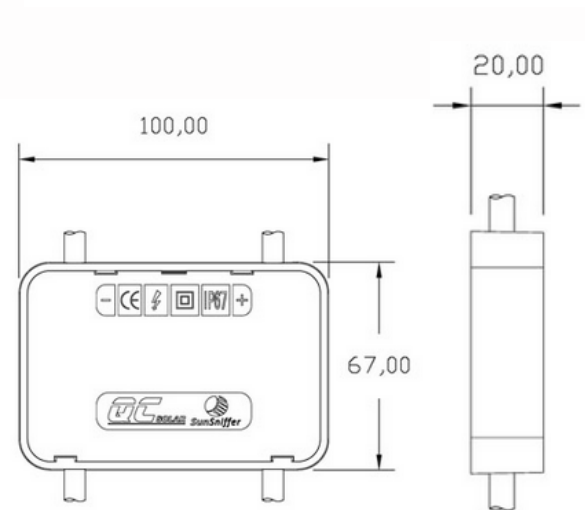
- **voltage (V)**
- **temperature (t°C)**
- **solar panel serial number**



Picture 1.
SunSniffer® Retrofit box;
cable length:
2x5cm, 2x90cm

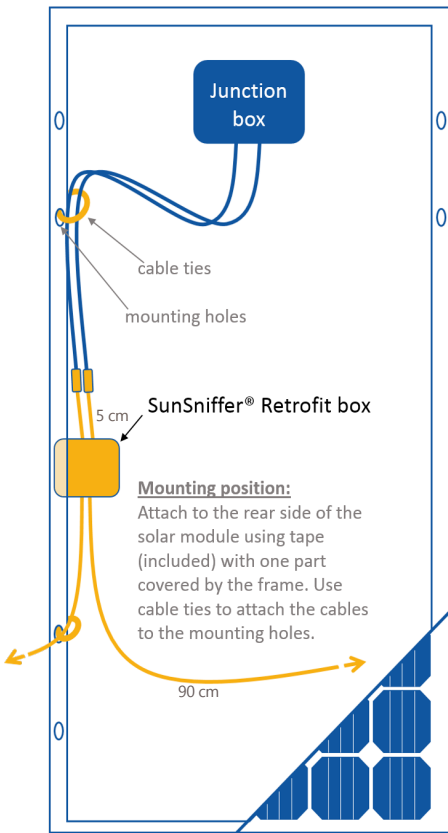


Picture 2. SunSniffer Technology scheme



Picture 3. SunSniffer® Retrofit housing specifications

SunSniffer® Retrofit Box



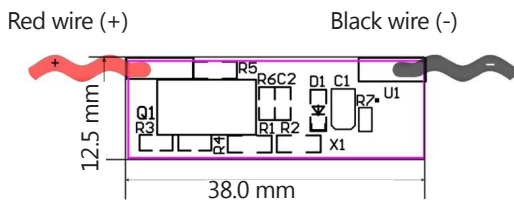
Picture 4. Easy and fast installation:
Just plug the Retrofit box between the modules.

HOUSING TECHNICAL SPECIFICATIONS:

Item	QC0816432
Rated current (J/D)	14.5 A / 30 A
Rated voltage	IEC 1000 V / UL 600 V
Dimensions	100 x 67 x 20 mm
Temperature range	-40°C~ 85 °C
Cable size	4.0 mm ² / 12 AWG
Protection degree	IP 67
Flammability class	5VA
Cable length	5 cm / 90 cm

SENSOR TECHNICAL SPECIFICATIONS:

Working voltage	12 ~ 40 ± 0.2 V
Temperature	-40 ~ + 85 ± 1 °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
Dimensions (LxWxH)	38 x 12.5 x 4 mm

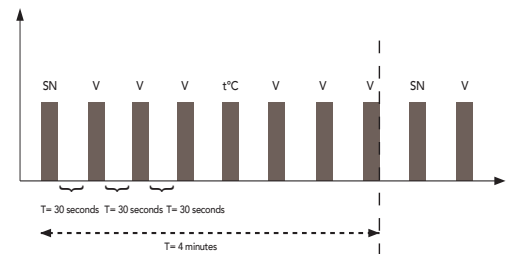


Picture 5. Sensor technical drawing and dimensions

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 on the right.



Picture 6. Sequence of data packets