RTONE

Rbee Solar
Photovoltaic production monitoring for you and your customers

- ⏱ **Installation in 10 min**
- **Built-in internet connection**
- 📦 **All-in-one solution**
- 🔔 **Fault detection**
- 📡 **Probe-less radiation analysis**
- 🔌 **Integration with your site**

ofgem **Approved generation meter** kWh

Control and prevent risks

Day-to-day production monitoring

Actual production and comparison with theoretical

Visual and characteristics of the installation
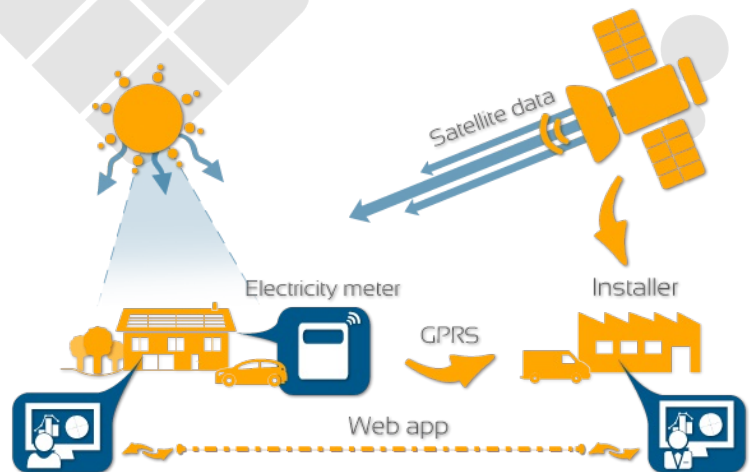
Alerts in the event of a fault

Production control by satellite image analysis

Rbee Solar analyses daily the satellite images of your installations in order to calculate the radiation in the plane of the photovoltaic modules
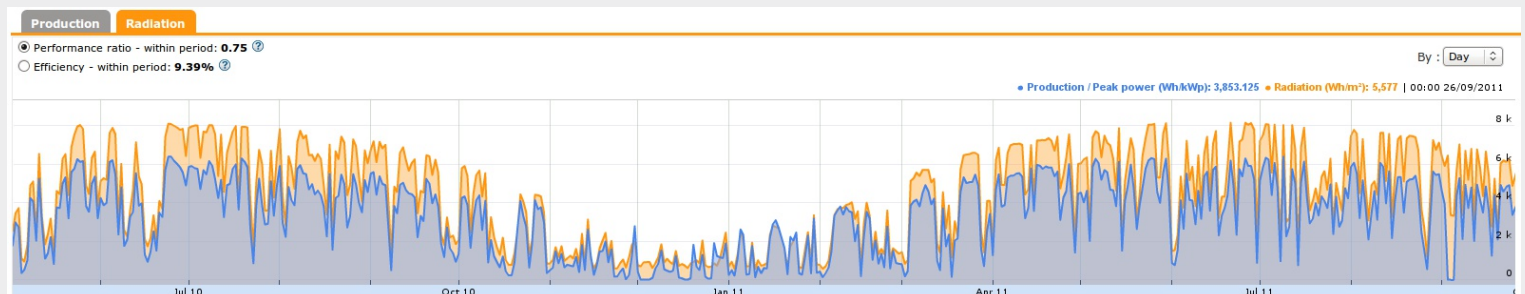
✉ **Email alerts in case of low performance ratio**

Satellite data

Electricity meter

GPRS

Installer

Web app

Radiation is calculated hour by hour depending on the location, orientation and slope of the roof

View production and compare it with radiation

| Production | Radiation |

○ Performance ratio - within period: **0.75**
○ Efficiency - within period: **9.39%**

By : Day

● Production / Peak power (Wh/kWp): 3,853.125 ● Radiation (Wh/m²): 5,577 | 00:00 26/09/2011

8 k
6 k
2 k
0

Jul 10   Oct 10   Jan 11   Apr 11   Jul 11

Mk7C single-phase meter

Accuracy: 1% (MID Class 1)
Dimensions: 210 mm x 130 mm x 70 mm
Power Supply: 220V - 240V (198V - 276V), 45 - 65 Hz
Current: 10 (100) A
Consumption: < 10 VA, < 2 W
Environment: -25°C +60°C, humidity (95%), IP55
Internal Memory: > 5 Jahre / 5 years
Communication: GSM/GPRS (PPP)
Cable section: 60 mm2 max
5 years guarantee

Mk10A three-phase meter

Accuracy: 1% (MID Class 1)
Dimensions: 210 mm x 166 mm x 74 mm
Power Supply: 220V - 240V (140V - 290V), 45 - 65 Hz
Current:
 • Whole current: 5 / 100 A, 10 / 100 A, 25 / 100 A
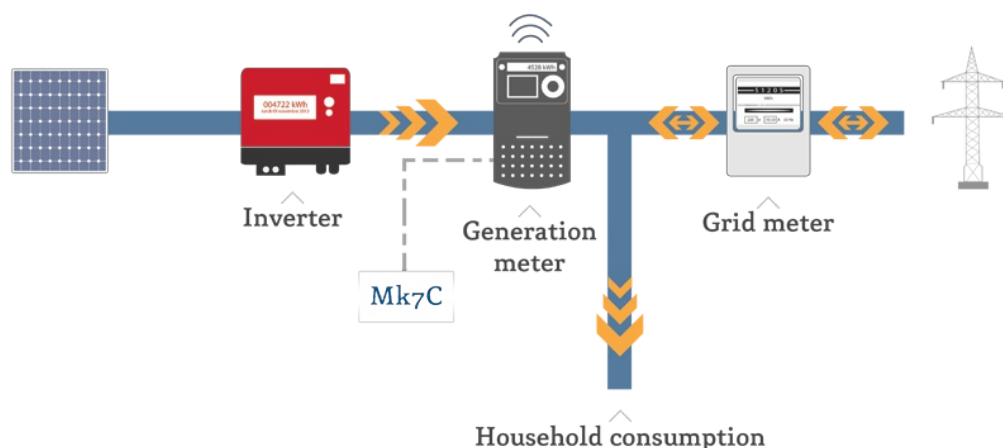 • CT: 1 / 6A, 5 / 20 A
Consumption: < 10 VA, < 2 W
Environment: -25°C +70°C, humidity (95%), IP55
Internal Memory: > 5 years
Communication: GSM/GPRS (PPP)
Cable section: 60 mm2 max
5 years guarantee

Inverter — Generation meter — Grid meter — Mk7C — Household consumption

Frequently Asked Questions

Is Rbee Solar compatible with all makes of inverters?
Yes, using an electric meter permits universal monitoring, regardless of make of inverter.
How do the meters communicate their data?
The meters transmit their data twice a day thanks to their built-in GPRS modem.
Is a subscription with a mobile operator required?
No, Rtone handles all your GPRS subscritions. Each meter is delivered with a SIM card and a 2-year subscription.
Does the system work with several inverters?
Yes, monitoring will be carried out on the whole of the production and not inverter by inverter.
Is the metering value certified?
Yes, the meters are all European MID Class B certified.