

## Solar module REC Solar SCM 210

Datasheet	Art.-Nr.: SCM 210 (205 Wp)
	Art.-Nr.: SCM 210 (210 Wp)
	Art.-Nr.: SCM 210 (215 Wp)
	Art.-Nr.: SCM 210 (220 Wp)

### Quality without compromises

The SCM 210 series of solar modules is a high-quality and long-life product range. The SCM 210 series is designed to meet system demands and has high-quality properties. Rigorous quality control applied throughout the production process, from cell to module, ensures minimum power output tolerances. The integrated polycrystalline solar cells produced by REC ScanCell in Narvik, Norway, are optimized for low-light conditions. Each module is individually tested and module-specific electrical data is provided for each module. The gap between the edge cells and the frame is sufficient to avoid shading due to the possible accumulation of debris on the module. A power output tolerance of  $\pm 5\%$  guarantees minimum mismatch losses.

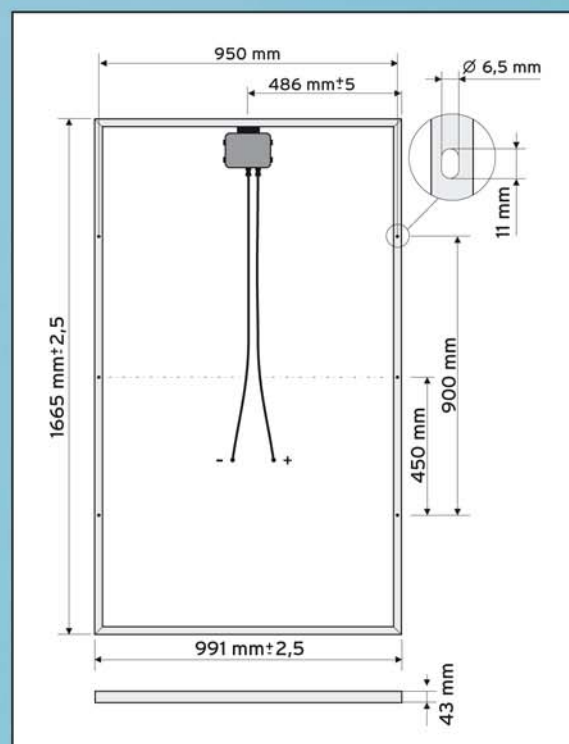
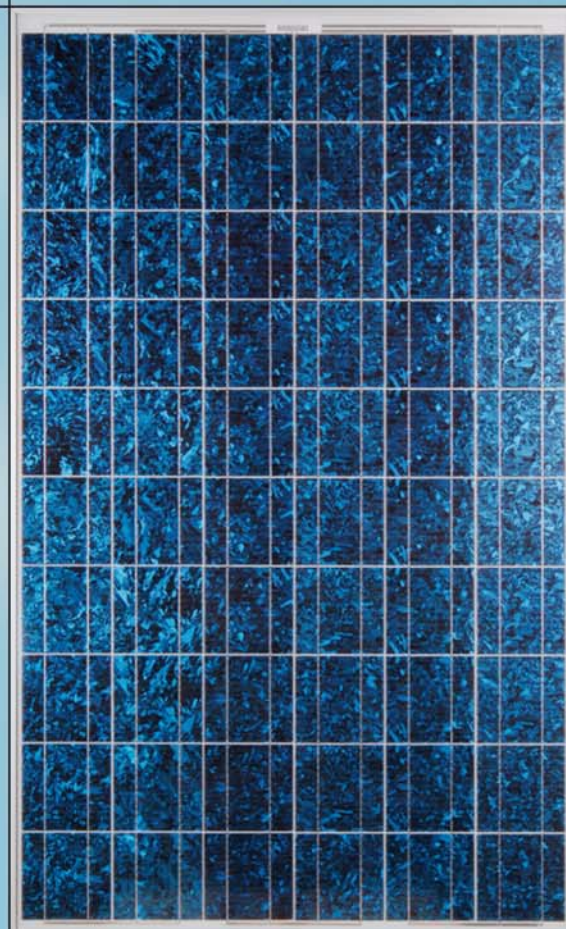
### Easy Installation

The high power output of the SCM 210 and its comparatively low weight (22 kg) enable speedy and relatively easy installation. Modules are equipped with MC FlexSol solar cables with MC III connectors to enable problem-free inter-module connection.

### Comprehensive environmental protection

We go further than just generating environmentally-friendly electricity. Our wafers, cells and modules are produced within Scandinavia to reduce transport requirements. Our cell and module production processes are designed to maximize recycling and reduce environmental impact.

The SCM 210 comes with a guarantee of producing 90% of rated power output for 10 years and 80% for 25 years. Workmanship is guaranteed for 5 years.



Warranty conditions are available on request.

Module type	REC Solar SCM 210			
	205 Wp	210 Wp	215 Wp	220 Wp
Cell type	Polycrystalline	Polycrystalline	Polycrystalline	Polycrystalline
<b>Electrical data</b>				
Nominal Power P <sub>mpp</sub> (Wp)	205	210	215	220
Power Output Tolerance P <sub>mpp</sub> (%)	±5	±5	±5	±5
Maximum Power Voltage U <sub>mpp</sub> (V)	28.08	28.17	28.27	28.33
Maximum Power Current I <sub>mpp</sub> (A)	7.33	7.46	7.59	7.71
Open Circuit Voltage U <sub>oc</sub> (V)	36,09	36.26	36.37	36.51
Short Circuit Current I <sub>sc</sub> (A)	7,93	8.11	8.21	8.32
Temperature Coefficient of P <sub>mpp</sub> (%/°C)	-0.43	-0.43	-0.43	-0.43
Temperature Coefficient of U <sub>oc</sub> (mV/°C)	-104	-104	-104	-104
Temperature Coefficient of I <sub>sc</sub> (mA/°C)	4	4	4	4
Cell Efficiency (%)	14.04	14.38	14.72	15.07
Module Efficiency (%)	12.42	12.73	13.03	13.33
Diodes (Spelsberg junction box)	3x10 A	3x10 A	3x10 A	3x10 A
Fill Factor FF (%)	0,72	0.71	0,72	0.73

Values at Standard Test Conditions STC (Air Mass AM 1.5, Irradiance 1000 W/m<sup>2</sup>, Cell temperature 25 °C)

NOCT = 43°C ±2

The NOCT (nominal operating cell temperature) is the cell temperature reached at an irradiance of 800 W/m<sup>2</sup>, at an environment temperature of 20 °C and a wind speed of 1m/s.

## Operation limits

Max. System Voltage: 1000 V

Module temperature range: -40... +90 °C

Stormproof: wind speed of 130 km/h (equals 800 Pa) and security factor 3

Mounting: instructions of user manual and mounting system supplier to be followed

## Specific Data

### Cells

Polycrystalline cells produced by REC ScanCell, 156 mm x 156 mm, full square, 60 per module, optimized for low-light conditions

### Module

Front: high-transparency solar glass, anti-reflex coated.

Transmittance (average): 95.4 % +/- 0.5 %

Embedding: EVA - Solar Cells - EVA

Back: Tedlar

Junction box: easy access, 3 bypass diodes

Light anodized aluminum frame

### Connection

2 x 0.94 m solar cables with MC-Connectors



Made in Sweden by REC ScanModule AB.

For further information contact your local distributor or visit our web site:

[www.recgroup.com](http://www.recgroup.com)

Size and weight	SCM 210
Area (m <sup>2</sup> )	1.65
Length (mm)	1665
Width (mm)	991
Thickness with frame (mm)	43
Weight (kg)	22 (approx.)

## Certification/Standards

IEC 61215, Safety class II, CE



- Qualified, IEC 61215
- Safety tested, TUV-Spec 931/2.572.9
- Periodic Inspection

AlterPro Energie  
Spécialiste du Solaire Photovoltaïque

**Agence Toulouse**  
ZAC de Montredon  
21, rue Apollo  
31240 L'UNION  
contact@alterpro.fr  
05 61 21 11 78

**Agence GERS**  
10B, rue des tisserands  
32190 VIC FEZENSAC  
gers@alterpro.fr  
06 03 98 27 35