

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)

Art.-Nr.: SCM 210 (225 Wp)

Quality without Compromise

The SCM 210 is a high quality series of solar modules. Designed to meet system demands of with exceptional performance. Rigorous quality control is applied throughout the production process, from cells to modules. The integrated multicrystalline solar cells within each module are optimized for low light conditions and increased light absorption. Each module has an innovative design, eliminating shading effects for maximum performance. A power output tolerance of $\pm 5\%$ guarantees minimum mismatch losses.

Quick Installations

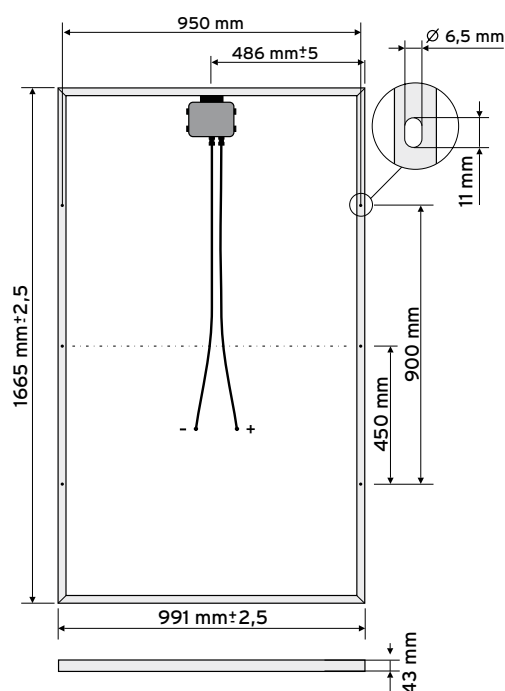
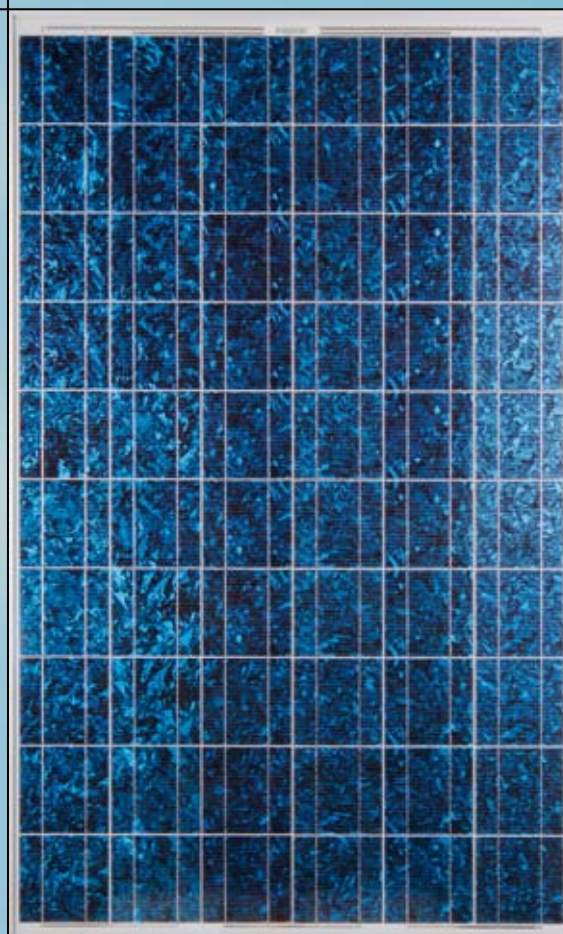
The high power output of the SCM 210 and its comparatively low weight (22 kg) allows for quick and easy installation. Modules are equipped with MC FlexSol solar cables with MC III connectors for problem-free inter-module connection.

Active Environmental Care

The SCM 210 series generates environmentally-friendly electricity. Our cell and module production processes are designed to maximize recycling and reduce environmental impact. At REC, the wafers, cells and modules are produced within Scandinavia.

Customer Satisfaction

The SCM 210 comes with a guarantee of 90 % of rated power output for 10 years.



Warranty conditions are available on request.

Module type	REC Solar SCM 210				
	205 Wp	210 Wp	215 Wp	220 Wp	225 Wp
Cell type	Multicrystalline	Multicrystalline	Multicrystalline	Multicrystalline	Multicrystalline
Electrical data					
Nominal Power P _{mp} (Wp)	205	210	215	220	225
Power Output Tolerance P _{mp} (%)	±5	±5	±5	±5	±5
Maximum Power Voltage U _{mp} (V)	28.08	28.17	28.27	28.33	28.57
Maximum Power Current I _{mp} (A)	7.33	7.46	7.59	7.71	7.88
Open Circuit Voltage U _{oc} (V)	36.09	36.26	36.37	36.51	36.65
Short Circuit Current I _{sc} (A)	7.93	8.11	8.21	8.32	8.46
Temperature Coefficient of P _{mp} (%/°C)	-0.43	-0.43	-0.43	-0.43	-0.43
Temperature Coefficient of U _{oc} (mV/°C)	-104	-104	-104	-104	-104
Temperature Coefficient of I _{sc} (mA/°C)	4	4	4	4	4
Cell Efficiency (%)	14.04	14.38	14.72	15.07	15.41
Module Efficiency (%)	12.42	12.73	13.03	13.33	13.64
Diodes (Spelsberg junction box)	3 x 10 A	3 x 10 A	3 x 10 A	3 x 10 A	3 x 10 A
Fill Factor FF (%)	0.72	0.71	0.72	0.72	0.72

Values at Standard Test Conditions STC (Air Mass AM 1.5, Irradiance 1000 W/m², 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/m², at an environment temperature of 20 °C and a wind speed of 1 m/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

Multicrystalline 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, with antireflection surface treatment. Transmittance (average): 95.4 % +/-0.5 %

Encapsulation: 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 2007-02_12

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

www.recgroup.com

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

Certification/Standards

REC Solar Modules are TÜV tested, on IEC 61215 accredited and Safety Class II (TÜV-Spec 931/2.572.9) accredited.

