For a Free Quote:

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Solar Panel Guide
Specification Data Sheet

SweModule RSE260 - 295 Wp RSE270

Also available on the web at EnergyPal.com/swemodule-solar-panels/rse270



- Made in Sweden.
- Optimized to produce more kWh per year then any other module.
- The most automatized PV manufacturing site in Europe.
- Employees with long experience in PVmodule manufacturing.
- More than 2 million modules produced at site



Description of module

- Solar Modules produced at SweModule by Renewable Sun Energy Sweden AB are
 designed for various markets and applications. High quality production, combined
 with strictest process control, ensure maximum lifespan and the highest performance.
- The robust construction is resistant to heavy wind and snow load.
- Special low iron glass with an unique etched antireflection treated surface, achieves up to 2 % higher measured output power, however the modules gives 5-8% higher energy yield performance in the field during scattered and low light conditions, especially in morning, evening and in the winter months.
- Encapsulant of high performance polyolefin, will stay transparent and maintain the high energy yield over long period of time.
- All joints soldered or welded in Junction Box, to prevent contact corrosion and arcing.

RSE270A RSE275A RSE280A

RSE285A

RSE290A

RSE295A

Product portfolio

RSExxxA Clear Aluminum frame, white backsheet.
 RSExxxA Dark Black frame, white backsheet
 RSExxxA Black Black frame, black backsheet

All products in portfolio can be manufactured with either 4BB poly or mono crystalline cells.

 $(xxx = P_{max})$





Production Site

Modern machines, stable processes and own module Design and Development, gives a unique position to meet customer expectations. The staff is accustomed to the plant and very experienced. Over 2 million modules produced at the production site.

Current capacity of 100 MW per year.

Automation

Automated to the highest level, thereby securing outstanding quality and module performance.



Quality control

The production site allocates its own test equipment, to ensure the high quality of the manufactured modules.

Each module is measured and visually inspected.

Furthermore new module design and new components can be long term tested in own laboratory.



General Data

Module power: 260 - 295 Wp.
Dimensions (L x W x H): 1665 x 991 x 35 mm

 $\begin{array}{ll} \text{Module area:} & 1,65 \text{ m}^2 \\ \text{Weight:} & 19 \text{ Kg} \end{array}$

Cell type: 156,75 x 156,75 mm Mono crystalline

156,00 x 156,00mm Poly crystalline

Number of cells: 60 pcs
Cells per bypass diode: 20 pcs
Number of bypass diodes: 3 pcs
Number of cell bus bars: 4

Front cover: High transparency low iron solar glass

with etched antireflection surface

treatment.

Front cover thicknesses: 3,2 mm.

Junction-box: QC Solar with 2 x 1,0 m cable 4mm².

QC4-10 / IEC1500V connectors

IP67 rating (flush safe).

Frame: Anodized aluminum, or black

powder coating.

Wind load Suction pressure of 2400 Pa (Wind speed

130 km/h with safety factor 3).

Snow load 8000 Pa approved.

418.5±5 From glass edge Ain 13 Grounding points

991 ±2.5

Electrical data

Temperature ratings

Max system voltage	1000V or 1500V	Nominal operation cell temperature (NOCT)	47,5 °C
Bypass diode rating:	15 A	Temperature coefficient of Pmpp	-0,394 %/K
Rated surge voltage (junction box)	8000 V	Temperature coefficient of Voc	-0,310 %/K
Series resistance of module:	$305~\mathrm{m}\Omega$	Temperature coefficient of Isc	0,040 %/K

Module type		RSE xxxA (xxx=P _{max})								
Electrical data	Multi-c	Multi-crystalline cells				Mono-crystalline cells				
Nominal power (P _{mpp})	260	265	270	275	280	285	290	295		
Power sorting from nominal (W _p)	0-5	0-5	0-5	0-5	0-5	0-5	0-5	0-5		
Maximum pover voltage V _{mpp} (V)	31,1	31,4	31,5	31,8	32,1	32,3	32,6	32,8		
Maximum pover current I _{mpp} (A)	8,4	8,4	8,6	8,7	8,7	8,8	8,9	9,0		
Open circuit voltage V _{oc} (V)	37,9	38,0	38,1	38,3	38,4	38,6	38,7	38,8		
Short circuit current I _{sc} (I)	9,1	9,2	9,2	9,4	9,5	9,5	9,6	9,7		
Cell efficiency (%)	17,8	18,1	18,5	18,8	19,2	19,6	19,9	20,2		
Module efficiency (%)	15,8	16,1	16,4	16,7	17,0	17,3	17,6	17,9		
Fill factor	0,76	0,76	0,76	0,77	0,77	0,77	0,78	0,78		
Power output tolerance P _{mpp} (%)		±5								

Limited warranty conditions

12 years materials and workmanship.

25 years linear module power output warranty, down to 80%. The minimum value in the first year is 97%

of the labelled nominal power.

50 years energy generating.

Certification - TBD

IEC 61215:2005, IEC 61730-1/-2:2007 TÜV Safety Class II, Factory Inspection

Corrosive gas (NH2) resistant

Salt mist resistan



