

SWEDMODULE ES75-ES85

Monocrystalline Solar Power Modules



SwedModule on a lighthouse at Laus Holmar in Gotland, Sweden

TOP SWEDISH QUALITY

Swedish technology you can trust is one of the cornerstones in Ecosupplies philosophy. The SwedModule product range is produced using only high quality raw materials from leading suppliers. The SwedModule is ideal for individual houses or buildings, on facades or rooftops but also for large scale solar power systems.

DESIGN OF THE SWEDMODULE

The cells are encased in high transmission low-iron tempered glass, multi-layers of ethylene vinyl acetate (EVA) as well as Tedlar film. This provides the modules with top-quality protection against external environmental effects. ES's Solar Power Modules also have bypass diodes to minimise power loss in case of shading and protect against hot spot effect.

QUALITY CONTROL

During the production process the modules pass through several quality control check points and they are carefully checked and tested prior to delivery. The final test takes place in a solar simulator, where the modules are tested under Standard Test Conditions (STC 1000W/m²). Every module's serial number and its test data are stored in our database.

FLEXIBILITY

We have the advantage to have a flexible production facility where we strive to meet our customer's needs. Choose from white, black or transparent tedlar. Silver or black frame or no frame at all. Please contact us for more information and ask for a quotation for a product especially designed for you.

WARRANTY

ES offer a product guarantee of 10 years and a 25 year performance guarantee for an 80 % power output on all standard products.

In order to further guarantee the quality of our products we are certified in accordance with:

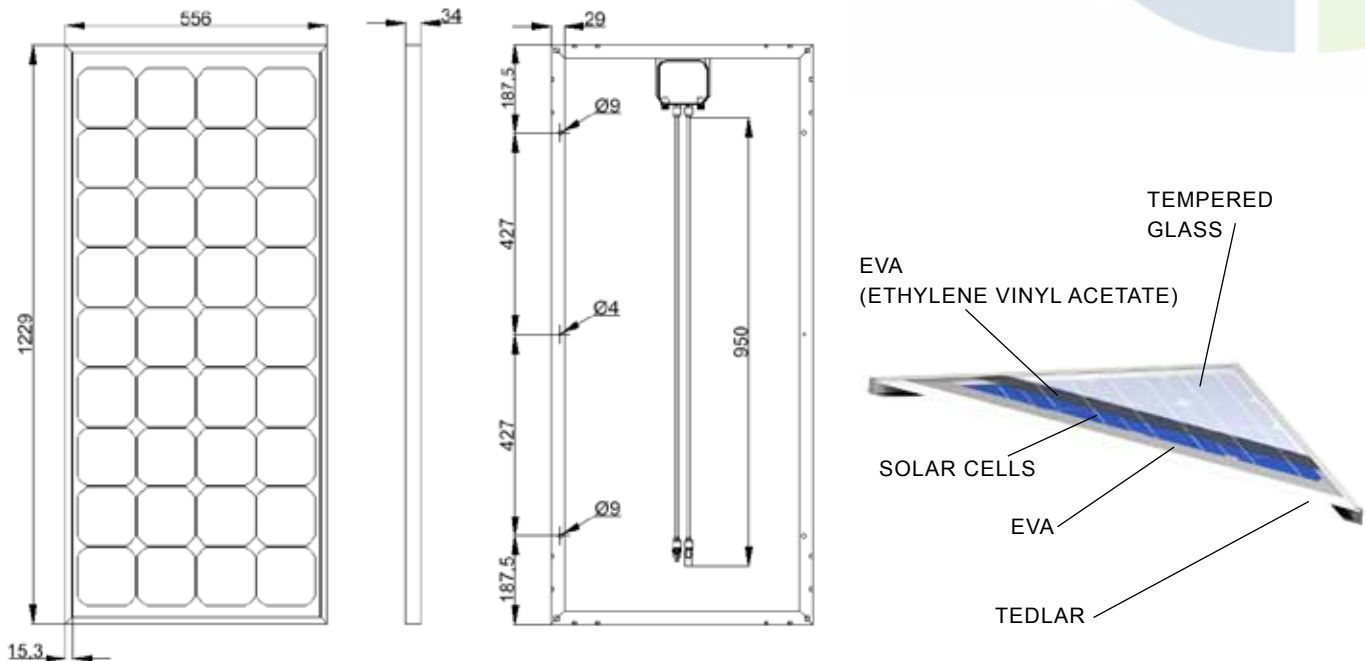
- EN IEC 61215 (design qualification and type approval)
- EN IEC 61730 (safety qualification)
- IEC 61701 (salt mist corrosion test)
- SS-EN ISO 9001:2000 (Quality Management System)
- SS-EN ISO 14001:2004 (Environmental Management System)



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CONSTRUCTION FRONT TO BACK



POWER SPECIFICATIONS

Performance under standard test conditions
1000 W/m², 25°C, 1.5 AM

	ES75	ES85
Maximum power (P _{max})	75 Wp	85 Wp
Open circuit voltage (V _{oc})	21.5 V	21.5 V
Maximum power voltage (V _{mpp})	17.0 V	17.5 V
Short circuit current (I _{sc})	4.70 A	5.18 A
Maximum power current (I _{mpp})	4.41 A	4.86 A
Module efficiency	10,98 %	12,44 %

THERMAL CHARACTERISTICS

NOCT 46°C

TC I_{sc} 0.036 %/K

TC V_{oc} -0.33 %/K

SYSTEM INTEGRATION PARAMETERS

Maximum system voltage: SC II 1000 V_{DC}

Maximum reverse current: Do not apply external voltages larger than V_{oc} to the module

Ecosupplies AB reserves the right to make specification changes without prior notice. Please contact your nearest stockist/distributor or visit our website to obtain the latest specification sheet.

Performance at
800W/m², NOCT, AM1.5

	ES75	ES85
Maximum power (P _{max})	53.4 Wp	60.8 Wp
Open circuit voltage (V _{oc})	19.5 V	19.5 V
Maximum power voltage (V _{mpp})	15.2 V	15.7 V
Short circuit current (I _{sc})	3.88 A	4.28 A
Maximum power current (I _{mpp})	3.51 A	3.87 A

All values with a tolerance of ± 5 %

Reduction in efficiency under partial load conditions at 25°C: at 200W/m², 95% (± 3 %) of the STC efficiency (1000 W/m²) is achieved.

PHYSICAL SPECIFICATIONS

Cell type	monocrystalline
Cell dimension (+/- 0,5mm)	125mm x 125mm
Cells per module	36
Module weight	7,5 kg
Module size (+/- 2mm) (L x H x W)	1229 mm x 556 mm x 34 mm
Frame	Anodized aluminium