

HEM - Photovoltaic

High Quality Crystalline solar modules produced in Scandinavian

Option - between white, black or transparent backsheet. Silver or black frame or no frame at all.

Top Danish Quality

Danish technology you can trust. The HEM Module product range is produced using only high quality raw materials from leading suppliers, The HEM Module is ideal for stand alone applications, individual houses or buildings, on facades or rooftops but also, for large scale solar power systems. 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.



HEM Module design

The cells are encapsulated 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, HEM's Solar Power Modules also have bypass diodes to minimise power loss in case of shading and protect against hot spot effect.

Warranty

HEM 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, EN IEC 61730, IEC 61701.

Quality Control (design qualification and type approval)

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 modules serial number and its test data are stored in our data-base.

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Datasheet for HEM 140Wp – 145Wp

Physical Specifications for version 12V

Cell type: Square / Poly
 Cell dimensions: 156 x 156 mm²
 Weight: 12,45 kg

Module produced according to guidelines for international certification UL 1703, IEC 61215, Safety class II and EN 61701

Rated power and maximum tolerance

140 - 145: +- 3%

Connecting socket: IP 65

Maximum system voltage 1000V

25 years 80% production guarantee

2 years product guarantee.

Characteristics for the characterisation of the thermal behaviour

NOCT: 46°C * TK Isc: 0,06 %/K * TK Isc 0,034 %/K, TK Voc: -0,34 %/K

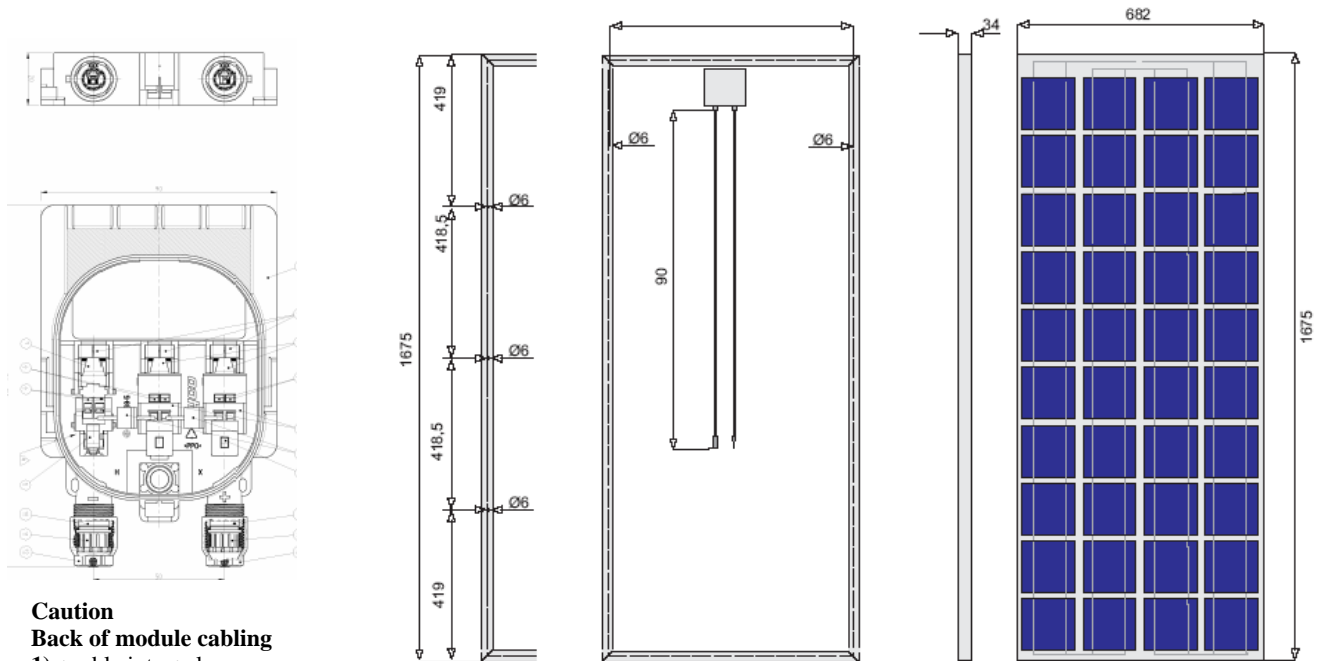
Module size: 1675 x 682 x 34 mm

Junction box with cables and waterproof connectors, model Tyco. Cables length cm 90.
 With 2 bypass diode.

Power specification for version 12V - Performance under standard test conditions (STC)

1000 W/m², NOCT, AM 1,5

		HEM 140	HEM 145
Peak power (Wp):	Pmax	140 Wp	145 Wp
Open circuit voltage	Voc	24,3 V	24,5 V
Max power voltage	Vmpp	19,5 V	19,9 V
Short circuit current	Isc	7,8 A	7,90 A
Max power current	I mpp	7,2 A	7,30 A



Caution

Back of module cabling

- 1) +cable into +plug in junction box
- 2) -cable into -plug in junction box

Note: Always check installation manual

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HEM photovoltaic is owned by Danish Solar Energy Ltd. We have been in the photovoltaic modules production since 1993 and are considered as one of the pioneers. All our high quality modules are produced in Scandinavian and they always comes with optimal performance.