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**Greener than Green**

## EcoPlus

The EcoPlus module is the „ecological“ product of Innotech Solar. The module is manufactured exclusively in Sweden. The process in which it is manufactured is one of a kind and places it into the top class. A special glass with an antireflection surface achieves a higher output power during scattered and low light conditions.

### Durability

Innotech Solar uses only cell materials from leading premium cell manufacturers. To eliminate the possibility of hotspot formation thoroughly, strict ITS control-criteria mandate a thermo-picture of each cell before and after processing.

### Price-performance ratio

Innotech Solar's innovative use of cell processing technology allows to offer high quality modules at an attractive price. Furthermore ITS modules guarantee an excellent yield through positive sorting (-0/+10 Wp).

### Environment

ITS follows its philosophy "greener than green" in each step of the production process. We are motivated to achieve the best CO<sub>2</sub> balance. According to calculations by the independent institute SmartGreenScans, ITS has about a 50 % smaller carbon footprint than conventional PV module producers.

## Highlights

- European module production in Sweden
- PID-free
- Higher yield because of antireflection glass
- Durable due to effective hotspot-prevention processes
- Cost advantage as a result of cell optimization
- Up to 10 Wp more module performance because of positive sorting
- Lowest carbon footprint



European  
Recycling  
Platform

## EcoPlus – Mono

STC\*

Pn	Wp	240	250	260
Vmpp	V	29.7	30.1	30.8
Imp	A	8.25	8.44	8.60
Voc	V	37.0	37.2	37.6
Isc	A	8.90	9.05	9.19
IR****	A	20	20	20
η	%	14.6 – 15.2	15.2 – 15.8	15.8 – 16.4

NOCT\*\*

Pn	W	176	182	189
Vmpp	V	26.7	27.2	27.8
Voc	V	29.3	29.8	30.3
Isc	A	7.13	7.25	7.40

## Temperature Coefficients

Pn	-0.43 %/K
Voc	-0.32 %/K
Isc	0.04 %/K

## EcoPlus – Poly

STC\*

Pn	Wp	240	250	260
Vmpp	V	30.2	31.0	31.2
Imp	A	8.11	8.22	8.49
Voc	V	37.1	37.6	37.8
Isc	A	8.66	8.79	8.98
IR****	A	20	20	20
η	%	14.6 – 15.2	15.2 – 15.8	15.8 – 16.4

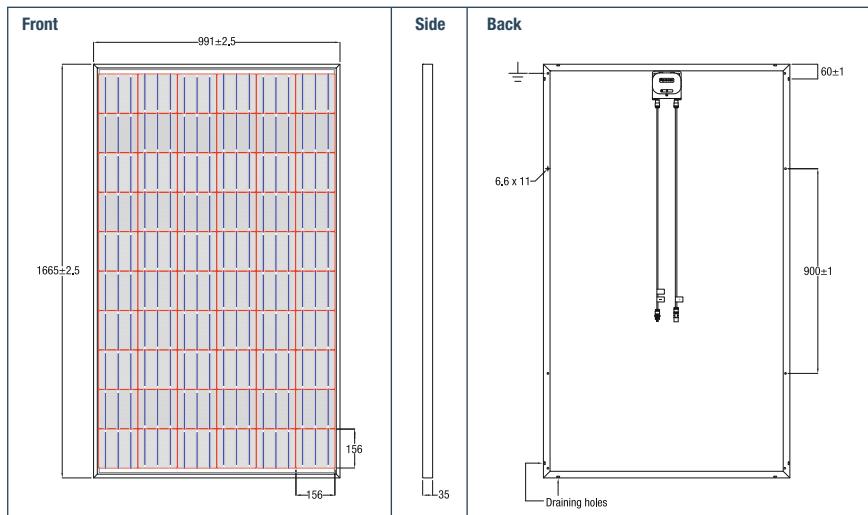
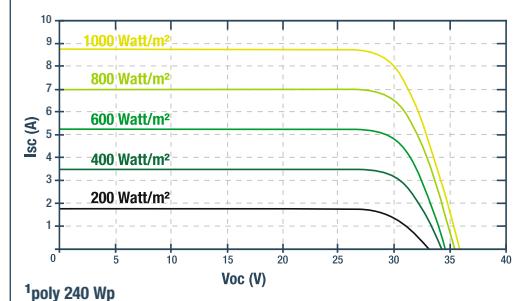
NOCT\*\*

Pn	W	176	182	186
Vmpp	V	27.3	27.8	28.3
Voc	V	33.9	34.2	34.5
Isc	A	6.90	7.00	7.10

## Temperature Coefficients

Pn	-0.38 %/K
Voc	-0.32 %/K
Isc	0.077 %/K

## I/V Curve<sup>1</sup>



\* STC – Standard Test Conditions, measurement conditions: intensity irradiation 1000 W/m<sup>2</sup>, spectral distribution AM 1.5, temperature 25 ± 2°C, according to standard EN 60904-3

\*\* NOCT – Normal Operation Cell Temperature, measurement conditions: irradiation intensity 800 W/m<sup>2</sup>, AM 1.5, temperature 20°C, wind speed 1 m/s.

\*\*\* Reduced efficiency with the decrease in the intensity of irradiation of 1000 W/m<sup>2</sup> and 200 W/m<sup>2</sup>, temperature 25°C according EN 60904-1

\*\*\*\* Reverse current power rating: operation of the modules with an external power source is only permitted with a string fuse with a release current of < 2 x Isc @ STC\*

Measuring tolerances of Pmax @ STC ± 3%, of reference module ± 2%, all other electric parameters ± 10%

This datasheet conforms to EN 50380. Innotech Solar reserves the right to change specifications without notice.