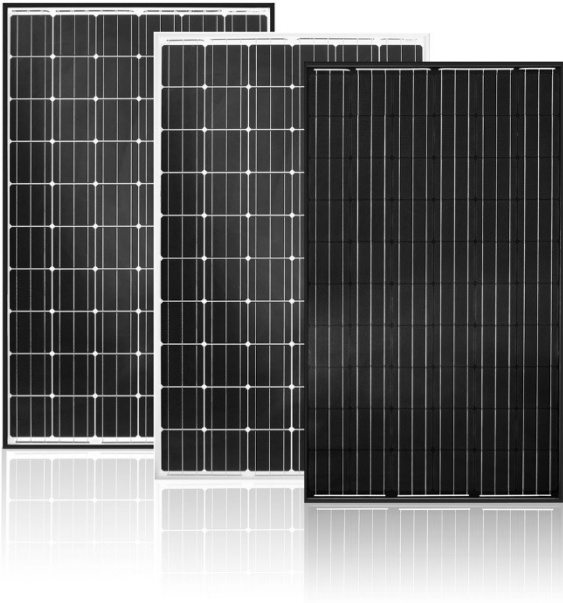


Innos Hold Greener than Green



Highlights

- Global Lowest Carbon footprint
- Designed in Scandinavia
- Produced in EU
- PID tested
- Unique hotspot-prevention
- Optimized Innos yield design, +5Wp
- Designed for building integration
- Variation in optical expressions

The Innos Hold facade module is manufactured exclusively in Europe. Global leader in energy yield for solar modules.

Environmental sustainability

Innos follow its philosophy "greener than green" in each step of production process. We are motivated to achieve the best CO₂ balance within the PV industry. Innos Hold optional delivered in Zero version with best in class CO₂ sustainability certificate.

Durability

Design based on standard production process and module size. Enforced, and certified, for BIPV standards, maximum performance and minimum environmental impact. The high-quality module of Innos pass through strict inspections during production and a doubling compared to standard cell test procedures. Performance and long-term tests are conducted by the independent institutes with results beyond standards.

Performance & Visibility

Visible designed in sizes and appearances to the standard module footprint. Optimized for life time installations in buildings. Available with either black mono or blue poly cells, grey or black frame, white or black backsheets and in addition black covered busbars.

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

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STC*

Pn	Wp	270 Poly	275 Poly
Vmpp	V	31,0	31,1
Imp	A	8,81	8,94
Voc	V	39,1	39,3
Isc	A	9,45	9,58
IR***	A	20	20
η	%	16,4-17,0	16,7-17,3

NOCT**

Pn	W	190	196
Vmpp	V	28,5	28,9
Voc	V	35,4	36,0
Isc	A	7,09	7,16

Temperature Coefficients

Pn	-0,41%/K
Voc	-0,30%/K
Isc	0,040%/K

STC*

Pn	Wp	300 Mono	310 Mono
Vmpp	V	31,2	31,5
Imp	A	9,63	9,85
Voc	V	39,4	39,8
Isc	A	9,97	10,10
IR***	A	20	20
η	%	18,3	18,5

NOCT**

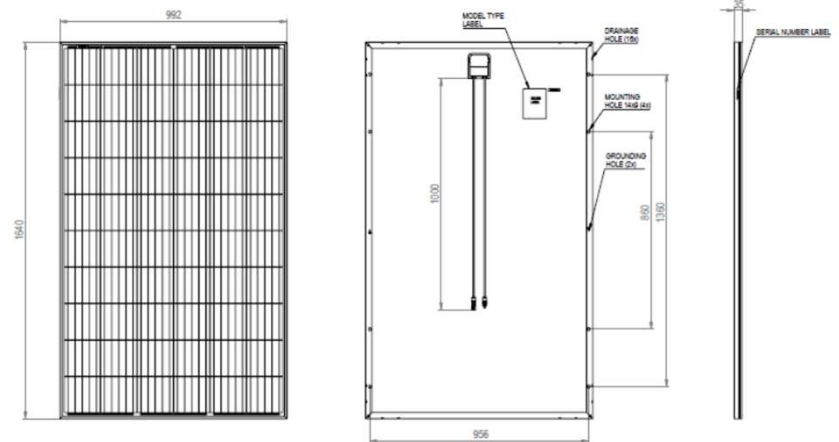
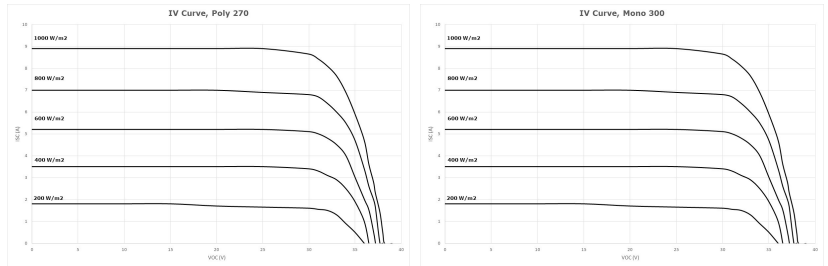
Pn	W	215	219
Vmpp	V	28,2	28,4
Voc	V	36,2	36,3
Isc	A	7,99	8,07

Temperature Coefficients

Pn	-0,40%/K
Voc	-0,29%/K
Isc	0,050%/K



NOCT**	46 °C
Module efficiency reduction at 200W/m2***	-0,6(+/-0,3%) abs.
Max. system voltage	1000V
IP Protection level	IP67
Module design	Glass-foil (white or black)
Frame	Al (silver or black)
Glass	Solarglass with treatment. 3,2mm
No. & type of Solar Cells	60 Mono or Polycrystalline solar cells 156*156mm, 180 μm
Cables	Junction box with MC4 pluggable connectors. Cable 2*1m/4mm ²
Bypass-Diodes	3 pcs.
Dimensions (l*w*h)	1640*992*35
Weight	19kg
Operating temp. Range	-40 to +85 °C
Mechanical ratings	Suction pressure of 2400Pa approved (wind speed 130km/h with safety factor 3), load 5400 Pa approved
Certification	IEC61215:2005 IEC61730-1/-2:2004 IEC61701:1995 (salt mist) EN50583-1_2016 Category A-D EN12600 EN12150 EN12543-4 / DIN52338
Positive sorting	0Wp/+5Wp
Product warranty	12 years
Performance warranty	12 years 90%/25 years 85% output power



* STC - Standard Test Conditions, measurement conditions: intensity irradiation 1000 W/m², spectral distribution AM 1.5, temperature 25 ± 2°C, according to standard EN60904-3.
 ** NOCT - Normal Operating Cell Temperature, measurement conditions: irradiation intensity 800 W/m², AM 1.5, temperature 20°C, wind speed 1m/s.
 *** Reduced efficiency with the decrease in the intensity of irradiation of 1000 W/m² and 200 W/m², temperature 25°C according EN60904-1.
 **** Reverse current power rating: operation of the module with an external power source is only permitted with a string fuse with a release current of <2I_{sc} @ STC.
 Measuring tolerance of P_{max} @ STC ± 3%, of reference module ± 2%, all other electrical parameters ± 10%.