



EXCELLENT P72
Low Carbon

POLYCRYSTALLINE 325-335 WP

**Certified sustainable
manufacturing**

Sustainable manufacturing certified by Certisolis

Carbon emissions during production are 50% lower than industry average



**Optimized for
performance**

PID-free polycrystalline high performance solar cells

Antireflective-coated solar glass

Low-light optimized

Positively classified -0/+4.99 Wp

Industry-leading NMOT values

**Highest quality
standards**

Manufactured according to
DIN EN ISO 9001:2015
DIN EN ISO 14001:2015
DIN EN ISO 45001:2018

PV-module type approval according to IEC 61215:2016 ³

PV-module safety qualification according to IEC 61730:2016 ³

**Guaranteed
performance ¹**

26 years of linear performance guarantee

12 years product guarantee, optional extension to 25 years

Total Care for the entire system (optional)

¹ For detailed information please consult the CS Wismar GmbH warranty conditions

² See backside for detailed test loads

³ Subject to recertification

EXCELLENT 325 | 330 | 335 P72 LOW CARBON

Performance STC

Under standard Test Conditions STC:
1000 W/m²; spectrum AM 1.5;
Cell temperature 25°C
Measurement tolerance STC:
P_{mpp} ±3%; I_{sc} ±10%; U_{oc} ±10%

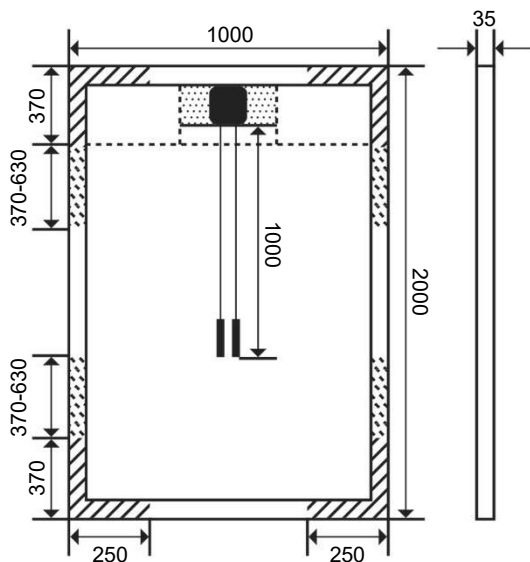
Nominal Power P _{mpp} (Wp)	325	330	335
Open Circuit Voltage U _{oc} (V)	46,37	46,60	46,83
Voltage U _{mpp} (V)	37,65	37,73	37,91
Short Circuit Current I _{sc} (A)	9,18	9,27	9,35
Current I _{mpp} (A)	8,70	8,84	8,95
Efficiency η (%)	16,3	16,5	16,8

Reduction of module efficiency at reduction from 1000 W/m² to 200 W/m²: 0,2% ± 0,1% (relative)

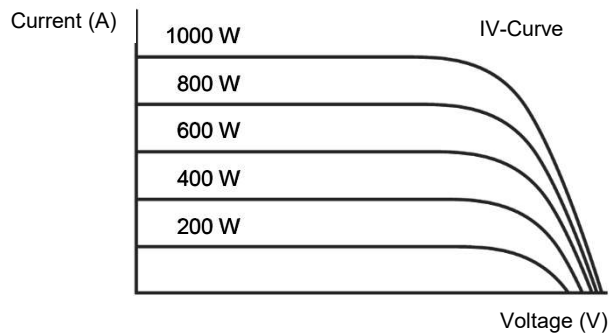
Performance NMOT

Nominal operating temperature of module
800 W/m², NMOT, AM 1.5

Nominal Power P _{mpp} (Wp)	258	263	268
Open Circuit Voltage U _{oc} (V)	43,12	43,34	43,55
Voltage U _{mpp} (V)	37,04	37,15	37,34
Short Circuit Current I _{sc} (A)	7,44	7,51	7,58
Current I _{mpp} (A)	6,97	7,08	7,17



measurements in mm



clamping area
 approved up to 2.400 Pa (suction & pressure)
 approved up to 2.400 Pa (suction)/
 5.400 Pa (pressure) no contact between junction box and mounting profile permitted in this area.

Other Technical Specification

Max. system voltage	1000 V
Weight	22.0 ± 0.5 kg
Reverse Current Load I _R	15 A
Junction box	IP 67 with 3 bypass diodes
Connectors	IP 67, MC4
Fire rating	class C
Operating temperature	-40°C ... +85°C
Design load: snow	5.400 Pa *
Max test load	8.100 Pa
Design load: wind	2.400 Pa *
Max test load	3.600 Pa

* safety factor 1.5

Thermal Properties

TC P _{mpp}	-0.40 %/K
TC U _{oc}	-0.305 %/K
TC I _{sc}	0.053 %/K
NMOT	45 +/- 2 °C

Material Used

No. of cells	72 cells
Type of cells	polycrystalline
Front	hardened solar glass
Frame	anodized aluminium
Frame height	35 mm

