

Optional
1500 volts module edition
Total Care for the entire system
Extended product guarantee



EXCELLENT P72
smart

POLYCRYSTALLINE 325-335 WP

**Aesthetic design,
simple installation and
maximum stability**

Extended clamping areas
and upside down
installation possible

Maximum test load
8.100 Pascal ²

**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
BS OHSAS 18001:2007

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

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%

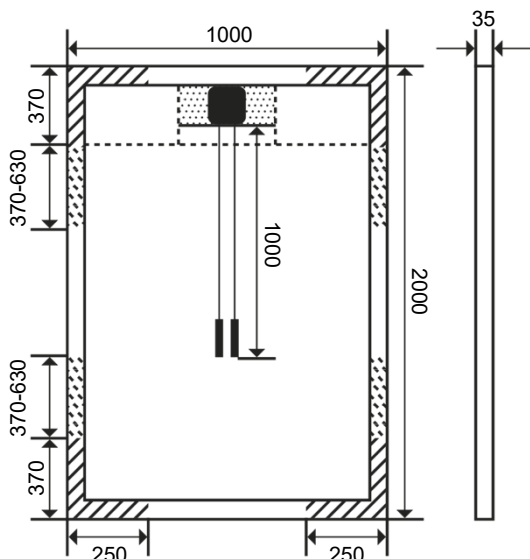
Nominal Power P _{mpp} (Wp)	325	330	335
Open Circuit Voltage U _{oc} (V)	46,37	46,60	46,83
Voltage U _{mpp} (V)	37,65	37,73	37,91
Short Circuit Current I _{sc} (A)	9,18	9,27	9,35
Current I _{mpp} (A)	8,70	8,84	8,95
Efficiency η (%)	16,3	16,5	16,8

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

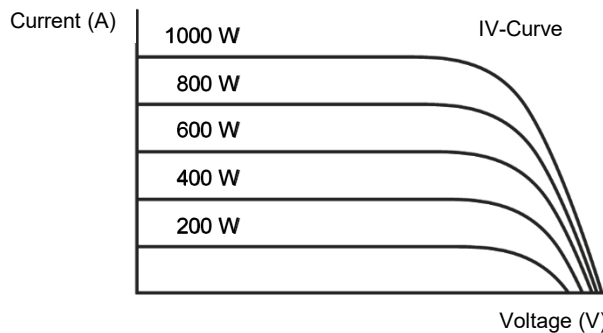
Performance NMOT

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 (diagonal hatching)
 approved up to 5.400 Pa (cross-hatching)
 no contact between junction box and mounting profile permitted in this area (dotted pattern)

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

