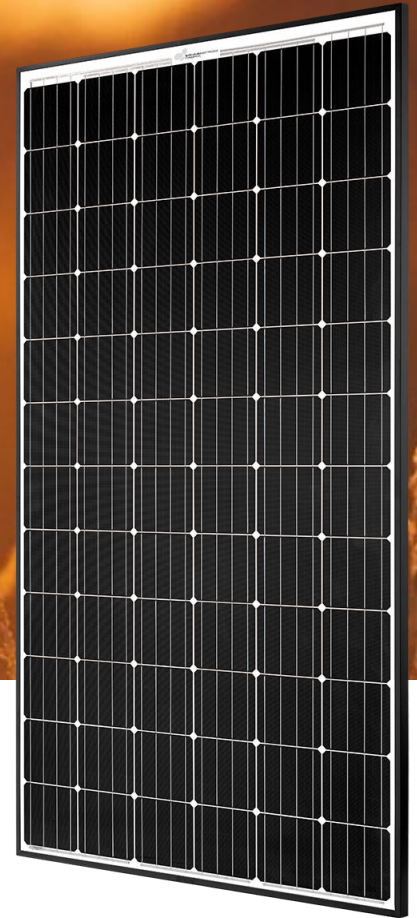


**Optional**  
1500 volts module edition  
Total Care for the entire system  
Extended product guarantee



**EXCELLENT M72**  
**smart**

MONOCRYSTALLINE 335-350 WP

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

Extended clamping areas  
and upside down  
installation possible

Maximum test load  
8.100 Pascal <sup>2</sup>

**Optimized for  
performance**

PID-free monocrystalline  
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 <sup>3</sup>

PV-module  
safety qualification  
according to  
IEC 61730:2016 <sup>3</sup>

**Guaranteed  
performance <sup>1</sup>**

26 years of linear  
performance guarantee

12 years product  
guarantee, optional  
extension to 25 years

Total Care for the entire  
system (optional)

<sup>1</sup> For detailed information please consult the CS Wismar GmbH warranty conditions

<sup>2</sup> See backside for detailed test loads

<sup>3</sup> Subject to recertification

# EXCELLENT 335 | 340 | 345 | 350 M72 smart

## Performance STC

Under standard Test Conditions STC:  
1000 W/m<sup>2</sup>; spectrum AM 1.5;  
Cell temperature 25°C  
Measurement tolerance STC:  
P<sub>mpp</sub> ±3%; I<sub>sc</sub> ±10%; U<sub>oc</sub> ±10%

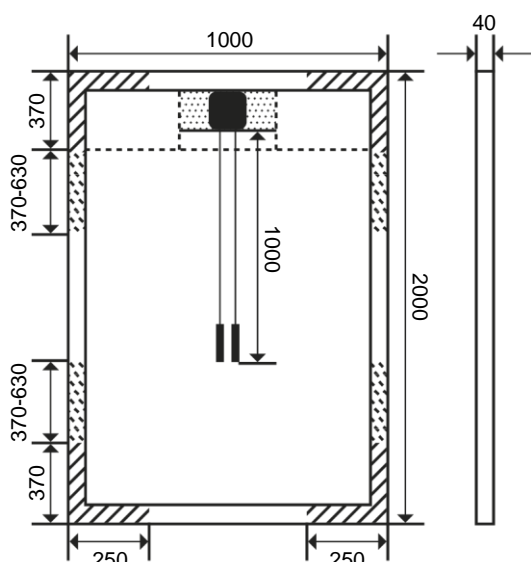
	335	340	345	350
Nominal Power P <sub>mpp</sub> (Wp)	335	340	345	350
Open Circuit Voltage U <sub>oc</sub> (V)	46,04	46,18	46,31	46,45
Voltage U <sub>mpp</sub> (V)	37,47	37,54	37,60	37,66
Short Circuit Current I <sub>sc</sub> (A)	9,41	9,50	9,58	9,67
Current I <sub>mpp</sub> (A)	8,96	9,09	9,22	9,34
Efficiency η (%)	16,8	17,0	17,3	17,5

Reduction of module efficiency at reduction from 1000 W/m<sup>2</sup> to 200 W/m<sup>2</sup>: 0,7% ± 0,3% (relative)

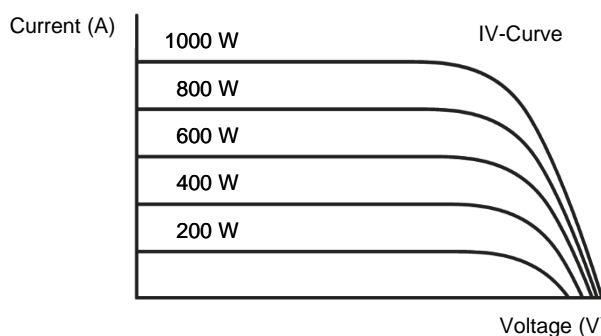
## Performance NMOT

Nominal operating temperature of module  
800 W/m<sup>2</sup>, NMOT, AM 1.5

	264	268	273	277
Nominal Power P <sub>mpp</sub> (Wp)	264	268	273	277
Open Circuit Voltage U <sub>oc</sub> (V)	42,75	42,88	43,00	43,13
Voltage U <sub>mpp</sub> (V)	36,87	36,95	37,03	37,10
Short Circuit Current I <sub>sc</sub> (A)	7,61	7,69	7,75	7,82
Current I <sub>mpp</sub> (A)	7,16	7,26	7,37	7,46



measurements in mm



**clamping area**  
 approved up to 2.400 Pa  
 no contact between junction box and mounting profile permitted in this area.  
 approved up to 5.400 Pa

## Other Technical Specification

Max. system voltage	1000 V
Weight	22.5 ± 0.5 kg
Reverse Current Load I <sub>R</sub>	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 <sub>mpp</sub>	-0.41 %/K
TC U <sub>oc</sub>	-0.31 %/K
TC I <sub>sc</sub>	0.045 %/K
NMOT	45 +/- 2 °C

## Material Used

No. of cells	72 cells
Type of cells	monocrystalline
Front	hardened solar glass
Frame	anodized aluminium
Frame height	40 mm

