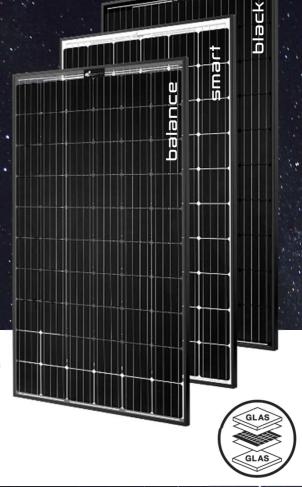


Optional

snow load module edition 1500 volts module edition optional in transparent, white, full black Total Care for the entire system Extended product guarantee



EXCELLENT GLASS/GLASS PERC60 balance | smart | black

PERC 305-320 WP

# Long lifetime even under extreme conditions

2 x 2 mm strong, hardened and scratchresistant solar glass

Protection of cells against microcracks through double glass composite

Maximum test load 8.100 Pascal 2

Stability optimized for increased requirements due to slipping snow loads (optional)

Extended hail impact tests to 30 mm

# Optimized for performance

PID-free PERC 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 1

30 years of linear performance guarantee

20 years product guarantee, optional extension to 30 years

Total Care for the entire system (optional)

For detailed information please consult the CS Wismar GmbH warranty conditions

<sup>&</sup>lt;sup>2</sup> See backside for detailed test loads

<sup>&</sup>lt;sup>3</sup> Subject to recertification

#### EXCELLENT GLASS/GLASS 305 | 310 | 315 | 320 PERC60

balance | smart | black

#### Performance STC

Under standard Test Conditions STC: 1000 W/m<sup>2</sup>; spectrum AM 1.5; Cell temperature 25°C Measurement tolerance STC: Pmpp ±3%; Isc ±10%; Uoc ±10%

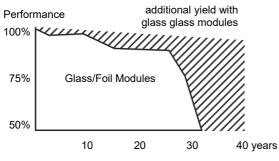
Nominal Power Pmpp (Wp)	305	310	315	320
Open Circuit Voltage Uoc (V)	39,62	39,82	40,03	40,22
Voltage Umpp (V)	32,94	33,16	33,37	33,61
Short Circuit Current Isc (A)	9,87	9,98	10,09	10,20
Current Impp (A)	9,26	9,35	9,44	9,52
Efficiency η (%)	17,9	18,2	18,5	18,8

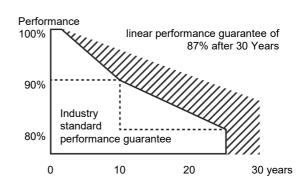
Reduction of module efficiency at reduction from 1000 W/m² to 200 W/m²: 2,6% ± 0,1% (relative)

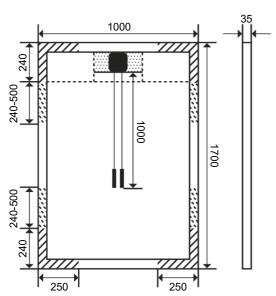
#### Performance NMOT

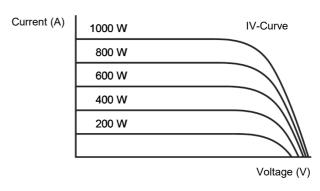
Nominal operating temperature of module 800 W/m², NMOT, AM 1.5

Nominal Power Pmpp (Wp)	239	243	246	250
Open Circuit Voltage Uoc (V)	37,05	37,24	37,44	37,61
Voltage Umpp (V)	32,29	32,50	32,71	32,94
Short Circuit Current Isc (A)	7,97	8,06	8,15	8,24
Current Impo (A)	7,39	7,46	7,53	7,60









## clamping area approved up to 5.400 Pa

approved up to 2.400 Pa in o contact between junction box and mounting profile permitted in this area.

## Other Technical **Specification**

measurements in mm

Max. system voltage Weight	1000 V 22.0 ± 0.5 kg
Reverse Current Load IR	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

## **Thermal Properties**

TC Dmnn	-0.39 %/K
TC Pmpp	
TC Uoc	-0.28 %/K
TC Isc	0.040 %/K
NMOT	45 +/- 2 °C

### Material Used

TC Pmpp	-0.39 %/K	No. of cells	60 cells
TC Uoc	-0.28 %/K	Type of cells	mono perc
TC Isc	0.040 %/K	Front	hardened solar glass
TOMV	45 +/- 2 °C	Frame	anodized aluminium
		Frame height	35 mm













