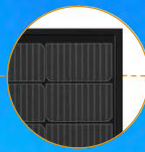


Smart



Full Black



Optional: Junction box
1500 Volt



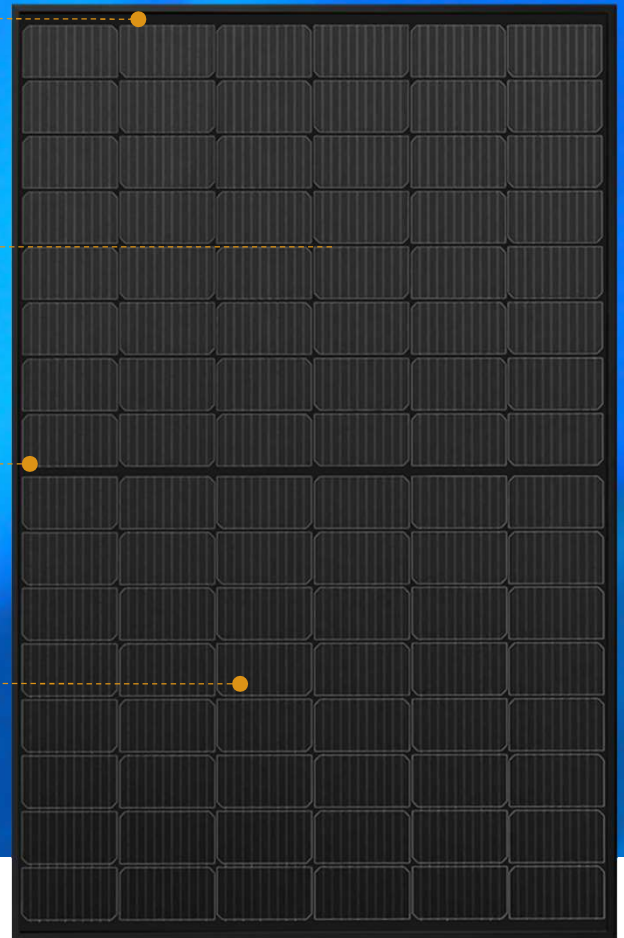
Optional: Heavy snow
load frame



Optional: 25 yrs
guarantee



Optional: Total-
Care Insurance



SAPHIRE M96

350 - 360 WP

MONOCRYSTALLINE



Long lifetime even under extreme conditions

Extended clamping areas and upside down installation possible

Maximum test load 8.100 Pa. ²

Original MC4 plugs and fire resistant cables

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

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
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

SAPPHIRE 350 | 355 | 360 M96 smart | full black

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%

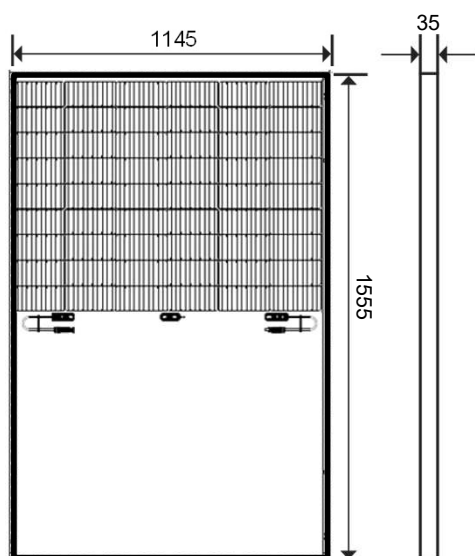
Nominal Power P _{mpp} (Wp)	350	355	360
Open Circuit Voltage U _{oc} (V)	32,17	32,33	32,49
Voltage U _{mpp} (V)	28,08	28,23	28,40
Short Circuit Current I _{sc} (A)	13,31	13,39	13,49
Current I _{mpp} (A)	12,5	12,58	12,68
Efficiency η (%)	19,6	19,9	20,2

Reduction of module efficiency at reduction from 1000 W/m² to 200 W/m²: 3,3% ± 0,1% (relative)

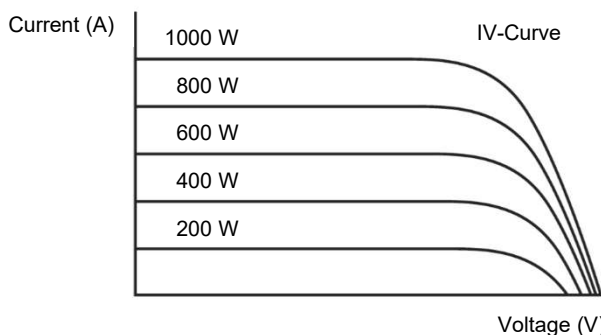
Performance NMOT

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

Nominal Power P _{mpp} (Wp)	270	273	277
Open Circuit Voltage U _{oc} (V)	30,09	30,24	30,39
Voltage U _{mpp} (V)	27,04	27,19	27,35
Short Circuit Current I _{sc} (A)	10,75	10,82	10,90
Current I _{mpp} (A)	9,98	10,04	10,12



Maßangaben in mm



Other Technical Specification

Max. system voltage	1000 V
Weight	20.0 ± 0.5 kg
Reverse current load IR	25 A
Junction Box	IP65/ IP68
Connector	IP65/ IP68, MC4
Fire Class Rating	Class C
Operating temperature	-40°C ... +85°C
design load: snow*	5.400 Pa
maximum test load	8.100 Pa
design load: wind*	2.400 Pa
maximum test load	3.600 Pa

* safety factor 1.5

Thermal Properties

TC P _{mpp}	-0.39 %/K
TC U _{oc}	-0.28 %/K
TC I _{sc}	0.040 %/K
NMOT	45 +/- 2 °C

Material Used

Number of cells	96 half-cut cells
Cell type	mono perc
Front cover	hardened solar glass
Frame material	anodized aluminium
Frame height	35 mm

Applied Standards

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- IEC 61215:2016 & IEC 61730:2016
- IEC 61701:2020