

Professional Glass / Glass M 108 490 - 500 WP

Back Contact Technology



Excellent performance even
in partial shade



Back contact technology



Snow load 5,400 Pa



Sophisticated design with high performance

2 x 2 mm thick, hardened and
scratch-resistant solar glass

Performance-optimized module design

PID-free monocrystalline
high-performance cells

Highest standards in production and quality assurance

Manufactured in accordance with
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
ISO 50001:2018

Industry-leading warranty¹

30-year linear
performance guarantee

Protection of cells against
microcracks through double
glass composite

Anti-reflective coated
solar glass

PV module design certification
in accordance with IEC 61215:2021³

25-year
product guarantee

Easy to install,
safe in operation

Optimized for low
light conditions

PV module Safety certification in
accordance with IEC 61730:2018³

Excellent mechanical load values,
compressive load up to 5,400 Pa²

Positive classification
-0/+4.99 Wp

Ammonia corrosion resistant
in accordance with IEC 62716:2013³

Hail class HW 3

Industry-leading NMOT values

¹ For detailed information, please refer to the warranty conditions of CS Wismar GmbH.

² For detailed test loads, see reverse side.

³ Subject to recertification.

Performance STC

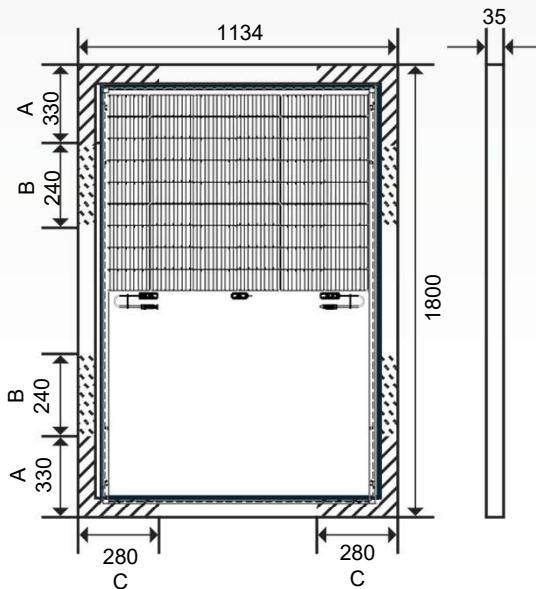
Under standard test conditions STC:
1000 W/m²; spectrum AM 1.5;
cell temperature 25°C
Measurement tolerances STC:
Pmpp±3%; Isc±10%; Uoc±10%

Nominal power Pmpp(Wp)	490	495	500
Open circuit voltage Uoc(V)	40,74	40,85	40,96
Voltage Umpp(V)	33,73	33,84	33,95
Short circuit current Isc(A)	15,18	15,28	15,38
Current Impp(A)	14,53	14,63	14,73
Efficiency η	24,0	24,3	24,5

 Reduction in module efficiency when decreasing from 1000 W/m² to 800 W/m²: 3% ±0.5% (relative)

Other technical specifications

Max. system voltage	1500 V
Weight	25.0 ±0.5 kg
Reverse current carrying capacity IR	25 A
Connection box	IP65/ IP68
Plug connector	IP65 / IP68, MC4 EVO 2
Fire protection class	Class C
Fire protection class	-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
External dimensions	1800 x 1134 mm


Approved clamping area:

- Area A: pressure 2400Pa / suction 2400Pa
- Area B: pressure 5400Pa / suction 2400Pa
- Area C: pressure 3600Pa / suction 2400Pa

Thermal properties

TC Pmpp	-0.26 %/K
TC Uoc	-0.20 %/K
TC Isc	0.050 %/K
NMOT	45 +/- 2 °C

Used materials

Number of cells	108 half-cut cells
Cell type	Monocrystalline
Glass	Tempered solar glass
Frame	Anodized aluminum



Management System
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
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