

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.

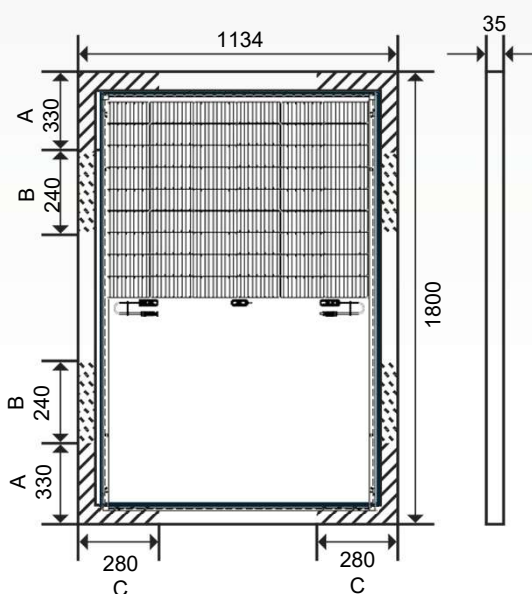
Performance STC




Under standard test conditions STC:
1000 W/m²; spectrum AM 1.5;
cell temperature 25°C
Measurement tolerances STC:
P_{mpp}±3%; I_{sc}±10%; U_{oc}±10%

Nominal power P _{mpp} (W _p)	490	495	500
Open circuit voltage U _{oc} (V)	40,74	40,85	40,96
Voltage U _{mpp} (V)	33,73	33,84	33,95
Short circuit current I _{sc} (A)	15,18	15,28	15,38
Current I _{mpp} (A)	14,53	14,63	14,73
Efficiency η	24,0	24,3	24,5
Reduction in module efficiency when decreasing from 1000 W/m ² to 800 W/m ² : 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 P _{mpp}	-0.26 %/K
TC U _{oc}	-0.20 %/K
TC I _{sc}	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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