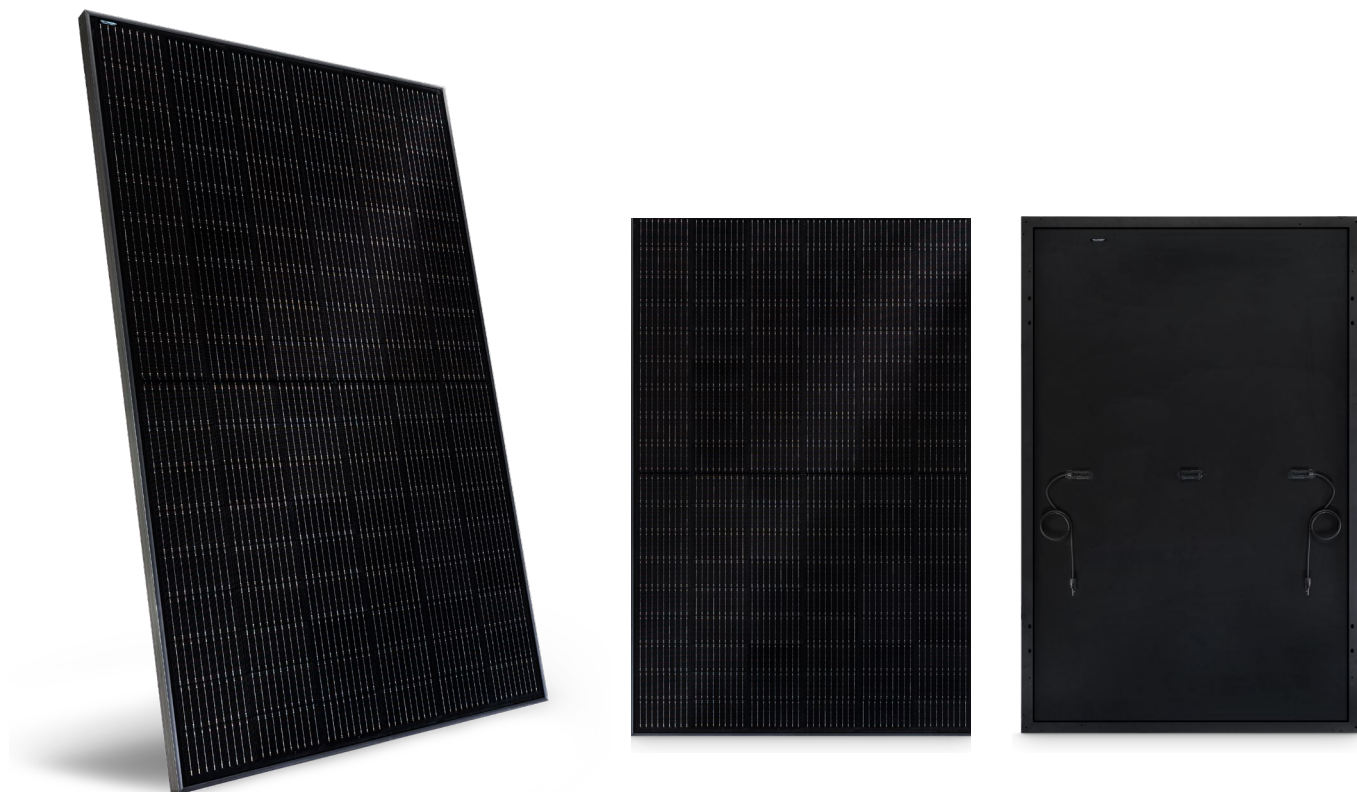


R-BF 108p.3/395

Solar module with PERC-Cells
for best performance.



Highlights

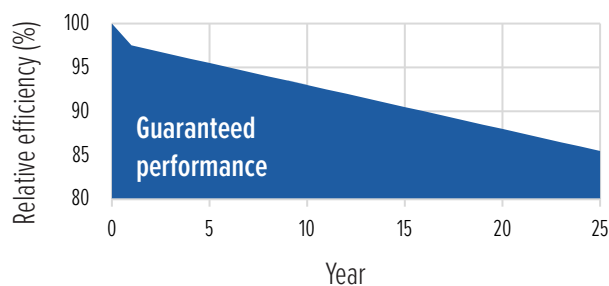
- Full black design
- Cable length 110cm with original STÄUBLI MC4-Connectors
- Black anodized aluminum frame

Technology

- Monocrystalline photovoltaic cells
- 10BB Multi-wire cell connector
- Half-cell technology

Warranty

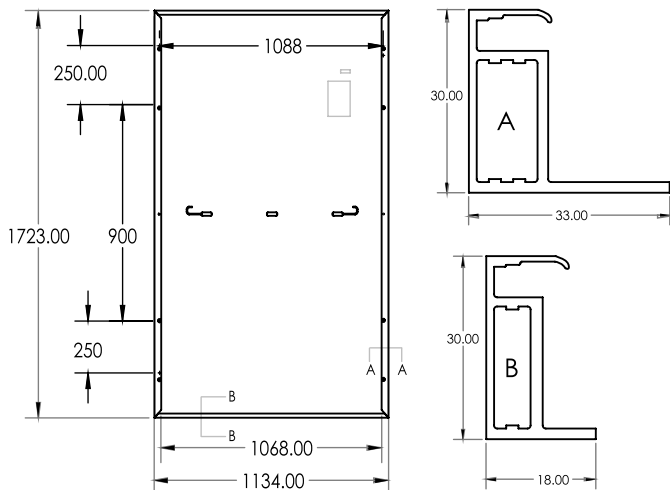
- 12 Years product warranty
25 linear performance warranty
- Max. Max. 2.5% degradation in the first year,
after max. 0.5% each year
- Max. Max. degeneration 14.5%
after 25 years



R-BF 108p.3/395

Module with black back-sheet and black frame

Technical data

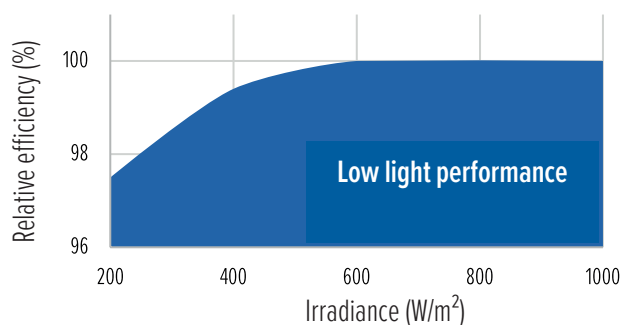


Working conditions

Maximum system voltage	1,500V
Temperature range	-40°C ... +85°C
Mechanical stability	Max. design load front 3,600Pa, test load 5,400Pa Suction loads up to 1,600Pa, test load 2,400Pa
Safety class	II
Reverse current overload	20A
Fire class	C

Temperature coefficients

TC at maximum power (P _{max})	-0.36% / °C
TC of open circuit voltage (V _{oc})	-0.28% / °C
TC of short circuit current (I _{sc})	+0.05% / °C



Certificates: IEC 61215:2016 and IEC 61730:2016
This data sheet corresponds to DIN EN 50380
Engineered and designed in Germany

General data

Cell technology	PERC; monocrystalline
Cell size and number	182mm x 91mm; 108 pcs.
Module dimensions	1.723mm x 1.134mm x 30mm
Module weight	21,5kg
Frame	Aluminium anodized (black)
Front glass	3.2mm tempered solar glass with anti-reflective coating
Junction box; IP rating	3 pcs. each with a bypass diode, IP68
Connectors	4mm ² solar cable; length 110cm; MC4-original STÄUBLI; IP68
Packing	36 modules vertical on pallet

Electrical data (STC)

Nominal data at standard testing conditions (STC): Irradiance 1,000W/m²; Spectrum AM 1.5; module temperature 25°C; sorting for P_{max} 0 to +5W

Module type	R-BF 108p.3/395
STC power output P _{max} (W _p)	395
Nominal power voltage V _{mp} (V)	30.98
Nominal power current I _{mp} (A)	12.76
Open circuit voltage V _{oc} (V)	36.84
Short circuit current I _{sc} (A)	13.77
Module efficiency (%)	20.20

Tolerance P_{max}: ± 3,0%; tolerances V_{oc}, V_{mp}, I_{sc}, I_{mp}: ± 5,0%

Electrical data (NMOT)

Nominal data at NMOT (Nominal Module Operation Temperature): Irradiation intensity 800W/m²; spectral distribution AM 1.5; ambient temperature 20°C; wind velocity 1m/s

Module type	R-BF 108p.3/395
Solar cell temperature (°C)	45 +/- 2
Power output (W _p)	298.60
Nominal power voltage V _{mp} (V)	28.60
Nominal power current I _{mp} (A)	10.44
Open circuit voltage V _{oc} (V)	34.60
Short circuit current I _{sc} (A)	10.98

Tolerance P_{max}: ± 3,0%; tolerances V_{oc}, V_{mp}, I_{sc}, I_{mp}: ± 5,0%

