



Deutsche
Qualität
Garantiert

SOLERON
POWERING THE FUTURE

HALF-CUT MULTIBUSBAR TECHNOLOGY

SLR-HC-460

460W

More power, less degradation

23.42%

MAXIMUM EFFICIENCY

144 Half Cells



HALF-CUT MULTIBUSBAR TECHNOLOGY

Half-Cut modules with Multibusbar Technology offer lower LID/LeTID degradation and better low light performance



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



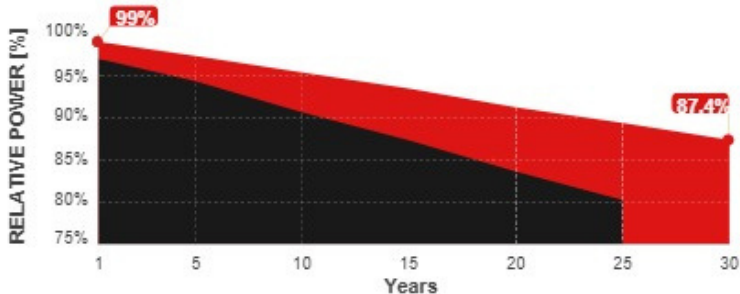
AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



PERFORMANCE WARRANTY

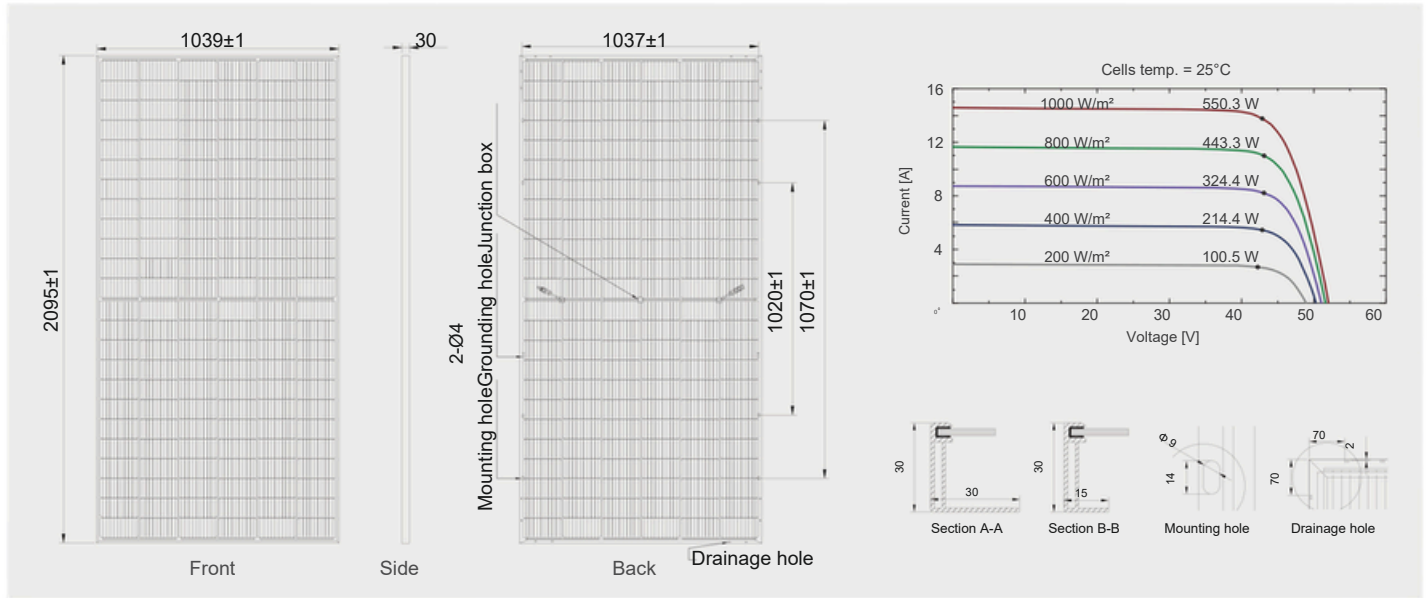


SYSTEM AND PRODUCT CERTIFICATIONS



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SLR-HC-460 460W



Electrical specifications (STC*):

Nominal max. Power	P_{max} (Wp)	440	445	450	455	460
Maximum operating voltage	VMPP (V)	43,42	43,44	43,46	43,48	43,50
Maximum operating current	IMPP (A)	10,13	10,24	10,35	10,46	10,58
Open-circuit voltage	Voc (V)	51,50	51,60	51,70	51,80	51,90
Short-circuit current	Isc (A)	10,52	10,60	10,68	10,76	10,84
Module efficiency	η (%)	22,45	22,64	23,02	23,22	23,42
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			30		

*STC: Standard Test Conditions (irradiance 1000 W/m², cell temperature 25°C and air mass of AM1.5), measurement tolerance Pmax: ±3%

Mechanical and design specifications

Cell type	Half-Cut Multibusbar Technology
No. of cells	144
Front cover	high transmission, AR coated, tempered glass
Encapsulation	POE
Back cover	white tempered glass or transparent backsheet
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable	1 x 4 mm², 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2095 mm x 1039 mm x 30 mm
Weight	25kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m²
Snow load	5400 Pa or 550 kg/m²

Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of P_{max}	-0.29 %/°C
Temp. coefficient of V_{oc}	-0.25 %/°C
Temp. coefficient of I_{sc}	0.046 %/°C
Nom. operating cell temp. NOCT	42 ± 2°C

The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.