



Play it safe



**Next  
Generation**

Premium modules  
MADE IN GERMANY

# Premium M mono

190 W • 195 W • 200 W

- Higher power classes
- Plus-sorted
- Improved innoframe stability
- 12-year product warranty
- 25-year **linear** performance warranty
- Guaranteed high yields for decades



# Premium M mono

## Electrical data under STC (Standard Test Conditions: 1000 W/m<sup>2</sup>, 25 °C, AM 1.5)

Parameter	Symbol	190 W	195 W	200 W
Rated power	$P_{max}$	190 W	195 W	200 W
Sorting limits of performance		0/+5 W	0/+5 W	0/+5 W
Voltage	$U_{MPP}$	37.00 V	37.05 V	37.10 V
Open circuit voltage	$U_{OC}$	45.00 V	45.05 V	45.10 V
Current	$I_{MPP}$	5.13 A	5.25 A	5.35 A
Short-circuit current	$I_{SC}$	5.45 A	5.55 A	5.65 A
Efficiency		14.9%	15.3%	15.7%

## Electrical data at 800 W/m<sup>2</sup>, NOCT (46°C +/- 2K), AM 1.5

Parameter	Symbol	143 W	146 W	149 W
Power in MPP	$P_{max}$	143 W	146 W	149 W
Voltage	$U_{MPP}$	34.53 V	34.58 V	34.62 V
Open circuit voltage	$U_{OC}$	41.38 V	41.42 V	41.47 V
Current	$I_{MPP}$	4.13 A	4.23 A	4.31 A
Short-circuit current	$I_{SC}$	4.39 A	4.47 A	4.55 A

The efficiency decreases by approximately 3% compared to the efficiency under STC at an irradiation of 200 W/m<sup>2</sup> and 25 °C.

## Temperature data

Power temperature coefficient	$T_K(P_{MPP})$	-0.48 %/K
Voltage temperature coefficient	$T_K(U_{OC})$	-0.34 %/K
Current temperature coefficient	$T_K(I_{SC})$	0.02 %/K

## Further information

Number of cells	72
Max. system voltage	1000 V
Reverse current loading capability	15 A
Front cover	Special hardened low-iron glass
Module connection	Junction box with 3 bypass diodes, 2 x approx. 1 m solar cable, Ø 4 mm <sup>2</sup> , plug connector, IP 68, Lumberg LC4 or Solarlok PV4
Snow load*	5400 Pa $\hat{=}$ 550 kg/m <sup>2</sup>
Load tested according to EN IEC 61215 (ed. 2)	

\* In compliance with the installation and operating manual.

12-year product warranty, 25-year linear performance warranty according to our additional warranty conditions for solar power modules of the "Premium" product series, which we will gladly send you.

Subject to technical modifications with corresponding follow-up certifications.

## Certifications

EN IEC 61215 (ed. 2)

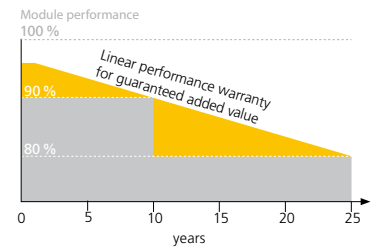
EN IEC 61730-1, -2

Protection class II

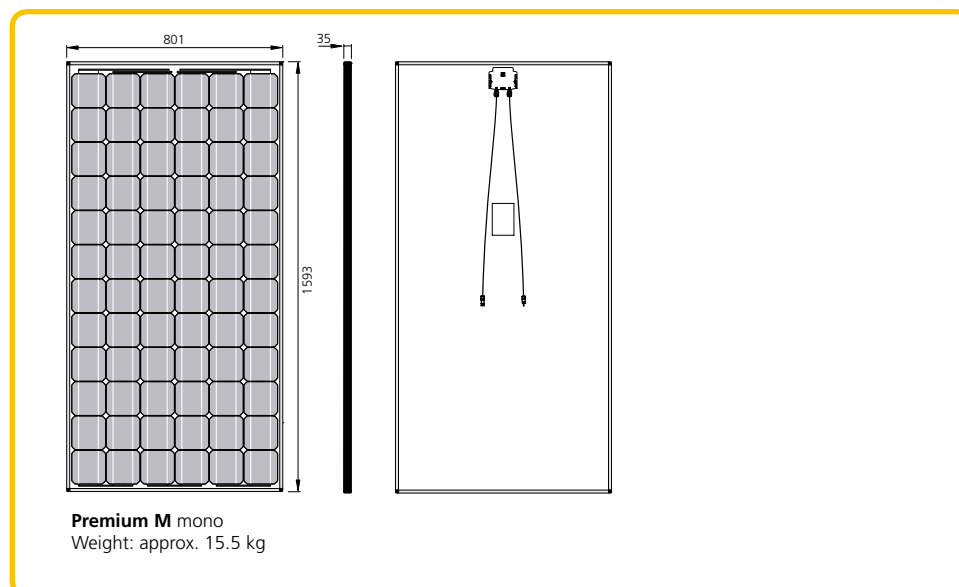
Directive 2006/95/EG (CE)



The innovative fastening technology with innoframe clamps.



■ Linear performance warranty  
■ Standard tiered warranty



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