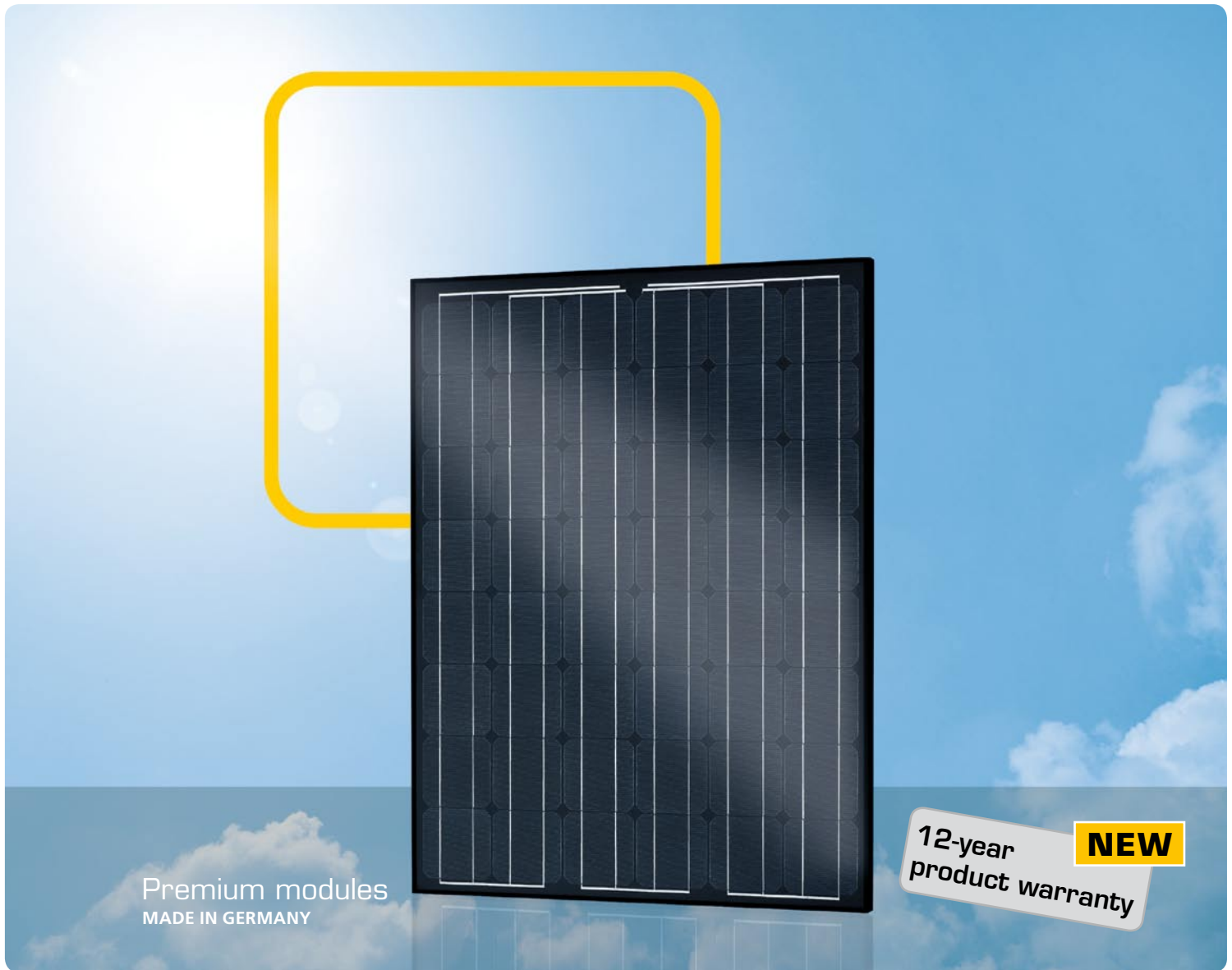


Play it safe



Premium modules  
MADE IN GERMANY

**NEW**  
12-year  
product warranty

## Premium XM mono black

185 W • 190 W • 195 W

- Elegant black module for aesthetically demanding projects
- Guaranteed high yields for decades
- 12-year product warranty  
25-year performance warranty
- Certified production with state-of-the-art technology

# Premium XM mono black

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

	$P_{max}$	185 W	190 W	195 W
Rated power				
Sorting limits of performance		+/- 2.5 W	+/- 2.5 W	+/- 2.5 W
Voltage	$U_{MPP}$	23.95 V	24.40 V	24.70 V
Open circuit voltage	$V_{OC}$	30.05 V	30.14 V	30.20 V
Current	$I_{MPP}$	7.75 A	7.80 A	7.90 A
Short-circuit current	$I_{SC}$	8.55 A	8.62 A	8.65 A
Efficiency		13.7 %	14.1 %	14.5 %

## Electrical data at 800 W/m<sup>2</sup>, NOCT (45°C +/- 2K), AM 1.5

	$P_{max}$	139 W	142 W	146 W
Power in MPP				
Voltage	$U_{MPP}$	22.07 V	22.49 V	22.76 V
Open circuit voltage	$U_{OC}$	27.76 V	27.85 V	27.90 V
Current	$I_{MPP}$	6.28 A	6.32 A	6.40 A
Short-circuit current	$I_{SC}$	6.90 A	6.95 A	6.98 A

The efficiency decreases by approximately 3.5% compared to the efficiency under STC at an irradiation of 200 W/m<sup>2</sup> and 25 °C.

## Temperature data

Power temperature coefficient	$T_k(P_{MPP})$	-0.47 %/K
Voltage temperature coefficient	$T_k(U_{OC})$	-98 mV/K
Current temperature coefficient	$T_k(I_{SC})$	5.45 mA/K

## Further information

Number of cells	48
Max. system voltage	1000 V
Reverse current loading capability	17 A
Front cover	Special hardened low-iron glass
Module connection	Connection box with 3 bypass diodes, 2.0 m solar cable Ø 4 mm <sup>2</sup> , plug connector IP 68 Lumberg LC4, socket at the connection box
Snow load*	Framed: 5400 Pa $\hat{=}$ 550 kg/m <sup>2</sup>

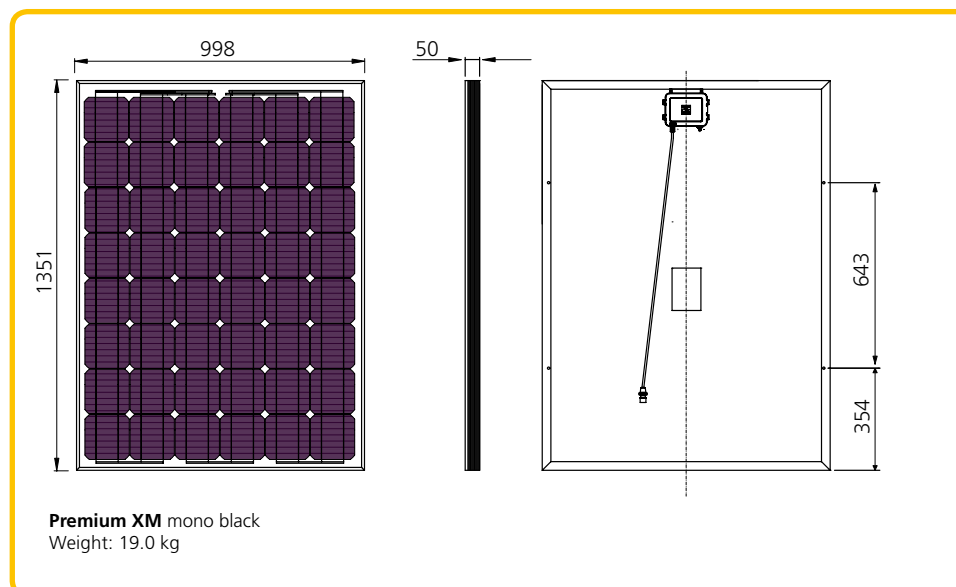
\* In combination with our patented Profilink mounting system and in compliance with the installation and operating manual.

12-year product warranty, 25-year performance warranty on solar power modules according to our additional warranty conditions, 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)	
MCS	pending



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