

# Photovoltaic module DE-CM Premium

EN



DE-CM PREMIUM

## High tech from Germany

WIOSUN's PREMIUM photovoltaic modules are produced in our own manufacturing plant in Biessenhofen in Germany. All of our 25 year know-how together with selected individual components in premium quality have gone into them.

## Long lifecycle and top yields

High performance solar cells by BOSCH guarantee the highest yields and a long lifecycle of the PREMIUM model series. Assembly is possible even in particularly hot regions due to the high lamination temperature of the Bridgestone EVA membranes used.

## Positive-only tolerance

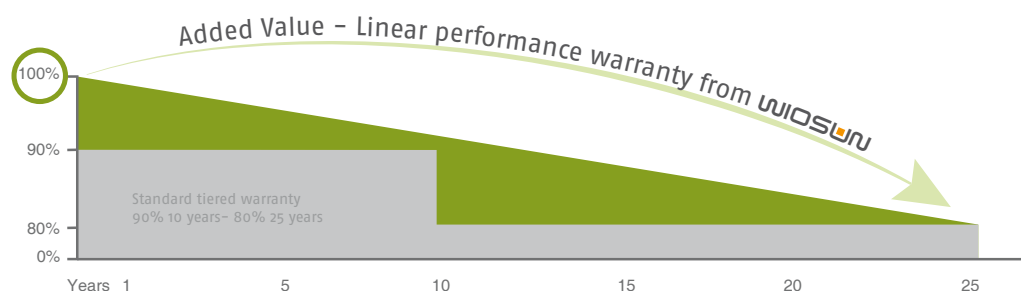
You can count on our quality, because WIOSUN delivers only modules with positive tolerance up to +4.99 Wp.

## Suitable for all snow load regions

The newly developed and strengthened 35 millimetre hollow chamber frame gives our modules extremely high stability - in all weather conditions.

## 10 year warranty on our products

With the 10 year product warranty on the WIOSUN module series, as well as a 25 year performance guarantee, WIOSUN photovoltaic modules are among the most reliably calculable components for efficient PV systems.



## General

Cells	60 ( 10 x 6) monocrystalline BOSCH Cells	Cellsize	156 x 156 mm
Frame	Anodized aluminium	Front glass	3.2 mm (0.13") Solarglass
Connection	Junction box with 3 bypass-diodes	Wire	4 mm <sup>2</sup> Solar cable, 1000 mm / 51.18" length
Connector	MC4 compatible	Power tolerance	Positive-only tolerance 0 to +4.99Wp

## Electrical Data (STC)

Module type			DE-C245M-P	DE-C250M-P	DE-C255M-P	DE-C260M-P
Nominal power	P <sub>MPP</sub>	Wp	245	250	255	260
Max. power voltage	U <sub>MPP</sub>	V	30.11	30.31	30.51	30.71
Max. power current	I <sub>MPP</sub>	A	8.14	8.25	8.36	8.47
Open-circuit voltage	U <sub>OC</sub>	V	37.80	37.90	38.00	38.10
Short-circuit current	I <sub>SC</sub>	A	8.72	8.82	8.92	9.02
Module efficiency	η %		14.78	15.09	15.40	

## Electrical Data (NOCT)

Nominal power	P <sub>MPP</sub>	Wp	178	182	185	189
Max. power voltage	U <sub>MPP</sub>	V	27.19	27.36	27.54	27.70
Open-circuit voltage	U <sub>OC</sub>	V	34.73	34.82	34.92	35.01
Short-circuit current	I <sub>SC</sub>	A	7.03	7.11	7.19	7.27

At a low irradiation intensity of 200 W/m<sup>2</sup> (AM 1.5, cell temperature 25 °C) 96 % of the STC module efficiency will be archived.

STC = Standard Test Conditions (1000 W/m<sup>2</sup>, AM 1.5, cell temperature 25 °C)

NOCT = Normal Operating Cell Temperature (800 W/m<sup>2</sup>, AM 1.5, windspeed 1 m/s, ambient temperature 20 °C)

## Temperature coefficients

Temperature coefficients I <sub>SC</sub>	+0.031 % / K
Temperature coefficients U <sub>OC</sub>	-0.31 % / K
Temperature coefficients P <sub>MPP</sub>	-0.44 % / K
NOCT	48 °C ± 2 °C

## Limits

Maximum system voltage	600V/1000 V
Maximum reverse current	25 A
Operating temperature	-40 °C - 80 °C
Maximum load	5400 Pa/m <sup>2</sup> = 550 kg/m <sup>2</sup> (75 lbs/ft <sup>2</sup> )
Safety class	II

## Certifications and warranty

TÜV, UL	IEC 61215 / IEC 61730 / 1703 i.V.
Product warranty	10 Years
Performance guarantee	linear 25 Years

## Mechanic Data

Dimensions (± 1 mm / 0.03 inch)	1.640 x 990 x 35 (64.56"x38.97"x1.38"/1.97")
Weight	18 kg   39.68 lbs

## Packing configuration

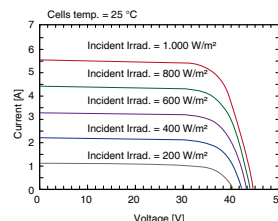
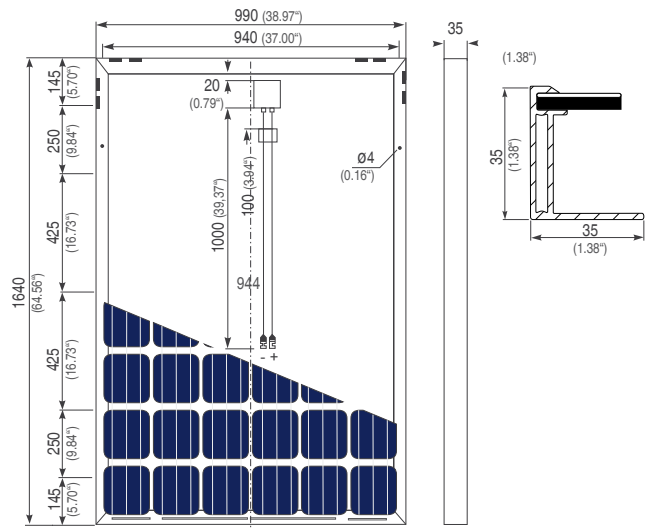
	35 mm	50 mm
Modules/Cardboard	30	
Cardboard/Container	28	
Modules/Container	840	

## Vertrieb/Logistik/Akademie/Hersteller

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All figures are according to DIN EN 50380.  
Tolerance at rated power 0 to +4.99 Wp. All other specifications ± 3%.

## Technical drawing



Your WIOSUN Dealer: