

**For a Free Quote:**

Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)

Call: 1-800-990-3725

Email: [contact@energypal.com](mailto:contact@energypal.com)

# EnergyPal

## **Solar Panel Guide Specification Data Sheet**

**Swisswatt AG  
PW185-210 54c  
PW200**

Also available on the web at  
[EnergyPal.com/swisswatt-ag-solar-panels/pw200](http://EnergyPal.com/swisswatt-ag-solar-panels/pw200)



## MODULE SERIES PW 185 - 210 - 54C

### MODULE TYPES

PW185, PW190, PW195, PW200, PW205, PW210



Schlätliweg 1  
9052 Niederteufen, Switzerland

fon: +41 (0)71 511 56 10  
fax: +41 (0)71 511 56 19  
email: [info@swiss-watt.com](mailto:info@swiss-watt.com)  
web: [www.swiss-watt.com](http://www.swiss-watt.com)

*The electrical parameters are typical values from historical production data. Measuring tolerance  $\pm 3\%$ .  
Technical changes in the course of product development, mistakes and errors reserved. Data sheet PW185 - 210S 54c V02-13*

## PRODUCT FEATURES

POLYWATT Modules with 54 cells offer 5 performance classes designed for roof - or ground mounting. The modules are best suitable for small, medium and large scale solar systems for on- or off-grid operations. Technology, design and construction guarantee the highly efficient and reliable long term output of each and every module. Our automatic production and our latest flash tower technology guarantee a documented performance above industry standard.

- + Industry leading power tolerance 0 - + 3 %
- + Unique frame design for insolation and weather exposure
- + Automatic clean-room production for sustainable returns
- + Frame mounting concept for long- and short side mounting
- + High transmission low iron tempered glass
- + Enhanced strength and impact resistance
- + Advanced EVA component encapsulation, multilayer backsheets technology

## WARRANTIES & ASSURANCES


Industry leading guaranty on material and manufacturing: 10 years

Output assurance: up to 12 years: 90 %, up to 25 years: 80%

Please refer to our warranty conditions

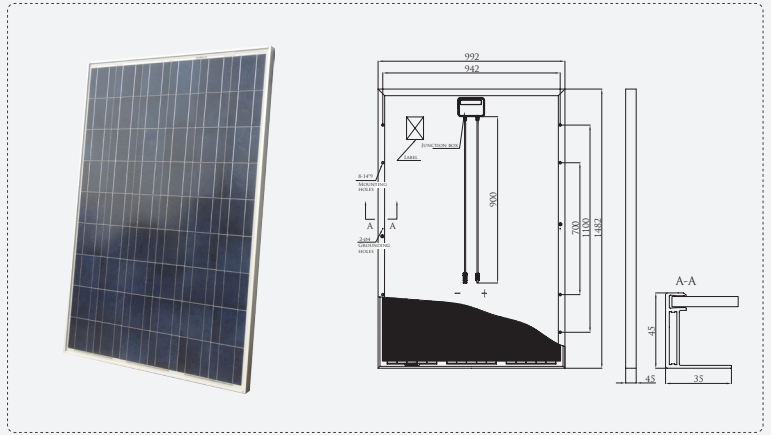
## QUALIFICATIONS & CERTIFICATES

Ongoing quality control and performance testing executed by independent testing laboratories grant the maximal benefit of your environmentally friendly energy production.

IEC 61215.2 / IEC 61730 / safety class II 



## TECHNICAL DATA MODULE SERIES PW 185 - 210 - 54C



## MECHANICAL DATA & MEASURES

Cable type, Diameter, Length	4mm <sup>2</sup> , TÜV certified, 900 mm
Connector type	RADOX® SOLAR or Typ IV compatible
Dimension (mm)	1482 x 992 x 45
Weight	17
Drainage Holes in Frame	10
Glass, Type, Thickness	High Transmission, Low Iron, 3,2 mm Tempered Glass
Junction box	IP 65 Typ IV or IP67 RADOX® SOLAR
Bypass-Diodes	3

## ABSOLUTE RATINGS

Dielectric Insulation Voltage (V)	3000 V
Operating Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +85
Mechanical Load	5400 Pa up to <b>10000 Pa extrem</b>

## MODULE SERIES PW 185 - 210 - 54C

Max-System Voltage (VDC)	600V(UL) / 1000V(IEC)
Number, type and arrangement of cells	54, Poly-Crystalline Silicon (6 x 9)
Cell Size (mm)	156 x 156
Max. Series fuse (A)	15
Module variants	Indus, <i>extrem</i> , Shadow Black

## ELECTRICAL DATA AT STC

Module type	PW185	PW190	PW195	PW200	PW205	PW210
Rated output P <sub>MPP</sub> (W)	185 Wp	190 Wp	195 Wp	200 Wp	205 Wp	210 Wp
Max-Power Voltage V <sub>m</sub> (V)	26,06 V	26,5 V	26,57 V	26,7 V	26,83 V	27,06 V
Max-Power Current I <sub>MPP</sub> (A)	7,1 A	7,17 A	7,34 A	7,49 A	7,63 A	7,76 A
Open circuit Voltage V <sub>OC</sub> (V)	32,36 V	32,56 V	32,6 V	32,7 V	33,13 V	33,19 V
Short circuit voltage I <sub>SC</sub> (A)	7,83 A	7,97 A	8,07 A	8,16 A	8,25 A	8,38 A
Cell Efficiency (%)	14,10%	14,50%	14,80%	15,20%	15,60%	16,00%
Module efficiency %	12,60%	12,90%	13,30%	13,60%	13,90%	14,30%

## CURRENT-VOLTAGE CURVE (I-V-CURVE)

### I-V Curve

The current in relation to the voltage, illustrates the cell performance at different irradiances and temperatures. (AM1.5; 25°C)

### THERMAL CHARACTERISTICS

P <sub>m</sub> Temperature Coefficient (%/K)	-0,48
I <sub>sc</sub> Temperature Coefficient (%/K)	0,055
V <sub>oc</sub> Temperature Coefficient (%/K)	-0,347

