

# MODULE SERIES PW 120 - 140 - 36C

MODULE TYPES PW120, PW125, PW130, PW135, PW140



SWISSWATT Schlättliweg 1 9052 Niederteufen, Switzerland

 fon:
 +41 (0)71 511 56 10

 fax:
 +41 (0)71 511 56 19

 email:
 info@swiss-watt.com

 web:
 www.swiss-watt.com

The electrical parameters are typical values from historical production data. Measuring tolerance ± 3%. Technical changes in the course of product development, mistakes and errors reserved. Data sheet PW120 - 140 36c V02-13

## PRODUCT FEATURES

POLYWATT Modules with 36 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 guarantie 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 backsheet 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

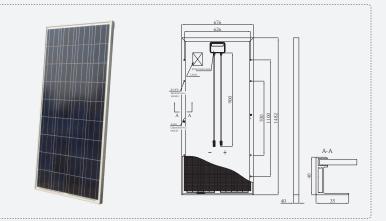
## QUALIFICATIONS & CERTIFICATES

Ongoing quality controll 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 120 - 140 - 36C



#### **MECHANICAL DATA & MEASURES**

Cable type, Diameter, Length	4mm2, TÜV certified, 900 mm		
Connector type	RADOX <sup>®</sup> SOLAR or Typ IV compatible		
Dimension (mm)	1482 x 676 x 40		
Weight	12		
Drainage Holes in Frame	8		
Glass, Type, Thickness	High Transmission, Low Iron, 3,2 mm Tempered Glass		
Junction box	ox 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 10000 Pa extrem

#### MODULE SERIES PW 120 - 140 - 36C

Max-System Voltage (VDC)	600V(UL) / 1000V(IEC)
Number, type and arrangement of cells	36, Poly-Crystalline Silicon (4 x 9)
Cell Size (mm)	156 x 156
Max. Series fuse (A)	15
Module variants	Indus, extrem, Shadow Black

# ELECTRICAL DATA AT STC

Module type	PW120	PW125	PW130	PW135	PW140
Rated output P MPP (W)	120 Wp	125 Wp	130 Wp	135 Wp	140 Wp
Max-Power Voltage Vm (V)	17,5 V	17,85 V	17,9 V	18,0 V	18,3 V
Max-Power Current I MPP (A)	6,86 A	7,00 A	7,3 A	7,5 A	7,65 A
Open circuit Voltage V <sub>OC</sub> (V)	21,4 V	21,6 V	21,74 V	21,85 A	21,95 V
Short circuit voltage I $_{SC}$ (A)	7,7 A	8,0 A	8,05 A	8,18 A	8,25 A
Cell Efficiency (%)	13,70%	14,30%	14,80%	15,40%	16,00%
Module efficiency %	12,00%	12,50%	13,00%	13,50%	14,00%

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

