



MODULE SERIES MW 240 - 265S - 60C

MODULE TYPES

MW240S, MW245S, MW250S, MW255S, MW260S, MW265S



Schlätliweg 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 $\pm 3\%$.
Technical changes in the course of product development, mistakes and errors reserved. Data sheet MW240 - 265S 60c V02-13*

PRODUCT FEATURES

MONOWATT Modules with 60 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

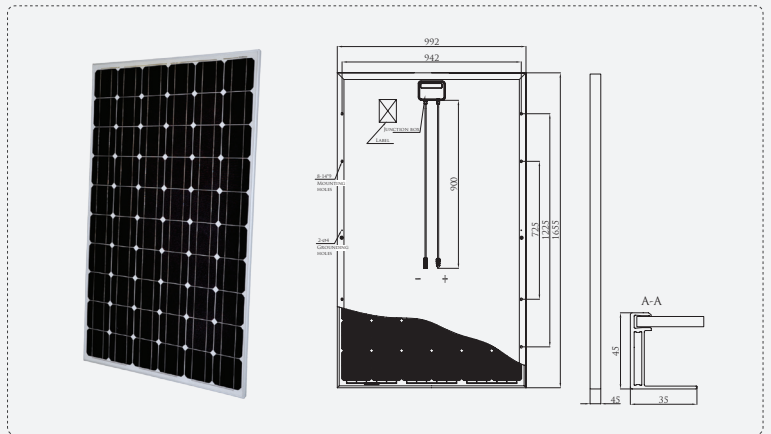
QUALIFICATIONS & CERTIFICATES

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 MW 240 - 265S - 60C



MECHANICAL DATA & MEASURES

Cable type, Diameter, Length	4mm ² , TÜV certified, 900 mm
Connector type	RADOX® SOLAR or Typ IV compatible
Dimension (mm)	1655 x 992 x 45
Weight	20
Drainage Holes in Frame	8
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 10000 Pa extrem

MODULE SERIES MW 240 - 265S - 60C

Max-System Voltage (VDC)	600V(UL) / 1000V(IEC)
Number, type and arrangement of cells	60, Mono-Crystalline Silicon (6 x 10)
Cell Size (mm)	156 x 156
Max. Series fuse (A)	15
Module variants	Indus, extrem , Shadow Black (240-255W)

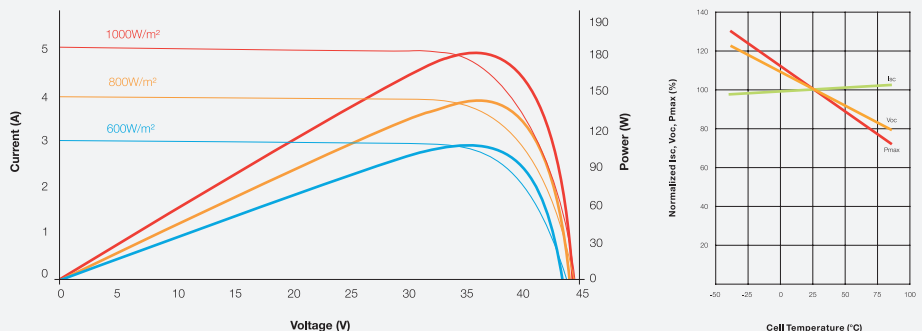
ELECTRICAL DATA AT STC / NOCT (47 ± 2°C)

Module type	MW240S	MW245S	MW250S	MW255S	MW260S	MW265S
Rated output P _{MPP} (W)	240 Wp	245 Wp	250 Wp	255 Wp	260 Wp	265 Wp
Max-Power Voltage V _m (V)	30,1 / 26,36 V	30,3 / 26,75 V	30,45 / 27,03 V	30,62 / 27,48 V	30,8 / 27,86 V	30,98 / 28,19 V
Max-Power Current I _{MPP} (A)	8,06 / 6,89 A	8,17 / 6,93 A	8,29 / 7,0 A	8,41 / 7,03 A	8,52 / 7,06 A	8,63 / 7,12 A
Open circuit Voltage V _{OC} (V)	37,62 / 34,35 V	37,8 / 34,51 V	37,92 / 34,62 V	38,4 / 35,06 V	38,58 / 35,22 V	38,9 / 35,51 V
Short circuit current I _{SC} (A)	8,69 / 7,39 A	8,73 / 7,42 A	8,75 / 7,44 A	8,76 / 7,45 A	8,86 / 7,53 A	8,93 / 7,59 A
Cell Efficiency (%)	17,20%	17,60%	18,00%	18,30%	18,70%	19,10%
Module efficiency %	14,60%	14,90%	15,20%	15,50%	15,80%	16,10%

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 _m Temperature Coefficient (%/K)	-0,4454
I _{sc} Temperature Coefficient (%/K)	0,0499
V _{oc} Temperature Coefficient (%/K)	-0,3336