SOLARWATT M140-36 GET AK

GLASS-FOIL-SOLAR MODULE



SOLARWATT modules supply the highest yield through optimally matched materials and sorting in tight performance classes. Tested source material, the most careful processing and the strictest test procedures guarantee the longevity of the modules. SOLARWATT modules are exclusively manufactured in Germany. The solar module SOLARWATT M140-36 GET LK for grid-connected plants connects SOLARWATT's familiar high quality with efficient installation and an outstanding costperformance ratio.

- monocrystalline solar cells with an efficiency » of up to 18%
- frame with hollow chamber profile and » drainage opening
- high mechanic stability and torsional » stiffness
- insulated and against reverse polarity » protected connectors
- positive classification range (-0 Wp to + 5 Wp) »
- Max. system voltage 1000 V »
- cells and used materials are tested » disengaged on the basis of test routines
- quality test during all manufacturing steps »
- 5 years warranty acc. to Special Warranty Conditions
- resource-conserving, patented packing system QUICKSTAXX ®

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CERTIFIED ACC. TO:: DIN EN ISO 9001 und 14001

[NOMENCLATURE OF NAMES OF SOLARWATT MODULES]

36

NO. OF CELLS

Μ

TYPE OF CELLS

A=amorphous silicon **M** = monocristalline silicon **P** = polycristalline silicon

140

BENCHMARK FOR MODULE PERFORMANCE Nominal Power and performance class are specified in the data sheet

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LAYER CONSTRUKTION

E = EVA **G**=Glass **K**=Synthetics T=Tedlar-composite film

Α FRAME

A=Aluminium E = Stainless Steel

Κ

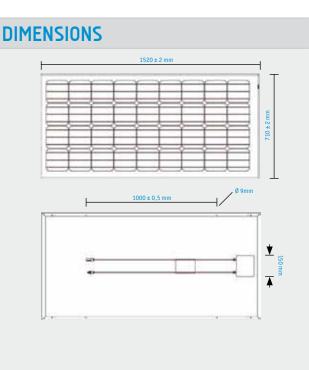
CONNECTION **B** = Ribbon D = Box

L=Laminate K=Cable (without frame)



SOLARWATT M140-36 GET AK TECHNICAL DATA





GENERAL DATA		
Module Technology	Glass-Foil-Laminate; Aluminium Frame	
Cover material Encapsulation Back material	High transparent solar glass (tempered), 4 mm EVA-Solar Cells-EVA Tedlar-Polyester-Tedlar, white	
No. and Type of Cells	36 monocrystalline solar cells	
Dimensions of Cells	156 x 156 mm	
Cables	Junction box with tyco plug connector cables 2 x 1,00 m/4 mm ²	
Bypass-Diodes	2 pcs.	
Application Class	Class A at IEC 61730	
Dimensions (LxWxH)	1526 x 716 x 35 mm	
Weight	15 kg	
Max. System Voltage	750 V	
IP Protection Level	IP 65	
Mechanical Ratings	Suction pressure of 2400 Pa approved (Wind speed 130 km/h with safety factor 3) Load of 2400 Pa approved	
Qualifications	IEC 61215 Ed.2, IEC 61730 (incl. Safety Class II)	

ELECTRICAL DATA (STC)

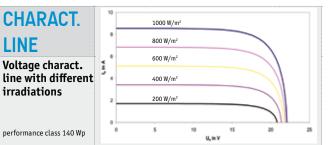
STC: Standard Test Conditions: measurement conditions: Radiation strength 1000 W/m², spectral distribution AM 1.5, temperature 25 2 °C, in accordance with EN 60904-3

Specification	SOLARWATT M140-36 GET AK	
Nominal Power P _N	135 Wp	140 Wp
Nominal Voltage Umpp	18,3 V	18,4 V
Nominal Current Impp	7,40 A	7,63 A
Open Circuit Voltage Uoc	22,0 V	22,1 V
Short Circuit Current Isc	8,56 A	8,59 A
I _R *	20 A	

Measuring tolerances Pmax ±5%; *Reverse current power rating: Operation of the modules with an external power source is only permitted with a string fuse with a release current of < 2 x ISC @ NOCT.

Reduction in the module efficiency with reduction in radiation strength of 1000 W/m² to 200 W/m² (25°C): 4±2% (relative) / -0,6±0.3% (absolute).

ELECTRICAL DAT	TA (NOCT) NOCT: I tempera	Normal Operation Cell Temperature, measurement conditions: Radiation strength 800 W/m², AM 1.5, ature 20 °C, wind speed 1m/s, electrical open-circuit operation
Specification	SOLARWATT M140-36 GET AK	
Nominal Power P _N	98 W	101 W
Nominal Voltage U _{mpp}	16,7 V	16,8 V
Open Circuit Voltage U _{oc}	20,4 V	20,5 V
Short Circuit Current \mathbf{I}_{SC}	6,89 A	6,91 A



THERMAL FEATURES	
Operating Temperature Range	-40 +80 °C
Ambiente Temperature Range	-40 +45 °C
Temperature Coefficient of P _N	-0,50%/K
Temperature Coefficient of Uoc	-0,37%/K
Temperature Coefficient of Isc	0,03%/K
NOCT	45°C