SOLARWATT M270-72 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 M270-72 GET AK 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®















SOLARWATT AG

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CERTIFIED ACC. TO: DIN EN ISO 9001 und 14001

[NOMENCLATURE OF NAMES OF SOLARWATT MODULES]

TYPE OF CELLS

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

270

sheet

BENCHMARK FOR

Nominal Power and

MODULE PERFORMANCE

performance class are

specified in the data

NO. OF CELLS

GET

E = EVAG=Glass K=Synthetics T=Tedlar-composite film

LAYER CONSTRUKTION

A=Aluminium E = Stainless Steel L=Laminate (without frame)

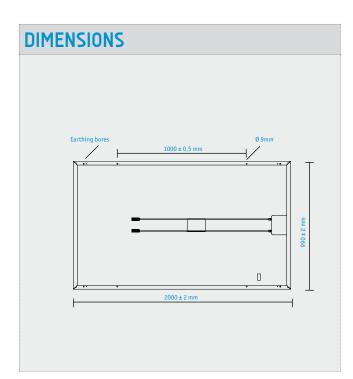
CONNECTION

B = Ribbon D = BoxK=Cable



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Subject to change without notice .

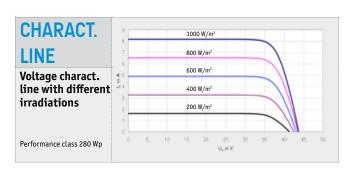


GENERAL DATA				
Module Technology	Glass-Foil-Laminate; Aluminium Frame			
Cover material Encapsulation Back material	High transparent solar glass (tempered), 4 mm EVA-Solar Cells-EVA Tedlar-Polyester-Tedlar, white			
No. and Type of Cells	72 monocrystalline solar cells			
Dimensions of Cells	156 x 156 mm			
Cables	Junction box with tyco plug connector cables 2 x 1,00 m/4 mm²			
Bypass-Diodes	3 pcs.			
Application Class	Class A at IEC 61730			
Dimensions (LxWxH)	2000 x 990 x 50mm			
Weight	29 kg			
Max. System Voltage	1000 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 5400 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 M270-72 GET AK				
Nominal Power P _N	275 Wp	280 Wp	285 Wp	290 Wp	
Nominal Voltage U _{mpp}	35,7 V	35,8 V	35,9 V	36,1 V	
Nominal Current I _{mpp}	7,71 A	7,82 A	7,94 A	8,02 A	
Open Circuit Voltage U _{OC}	43,7 V	43,7 V	43,8 V	43,9 V	
Short Circuit Current I _{SC}	8,15 A	8,17 A	8,18 A	8,20 A	
I _R *	20 A				

Reduction in the module efficiency with reduction in radiation strength of 1000 W/m^2 to 200 W/m^2 (25°C): $4^{\pm2}$ % (relative) $/-0.6^{\pm0.3}$ % (absolute).

ELECTRICAL DATA (NOCT)			NOCT: Normal Operation Cell Temperature, measurement conditions: Radiation strength 800 W/m², AM 1.5, temperature 20 °C, wind speed 1m/s, electrical open-circuit operation		
Specification	SOLARWATT M270-72 GET AK				
Nominal Power P _N	198 W	202 W	205 W	208 W	
Nominal Voltage U _{mpp}	32,5 V	32,6 V	32,7 V	32,9 V	
Open Circuit Voltage U _{0C}	40,5 V	40,5 V	40,6 V	40,7 V	
Short Circuit Current I _{SC}	6,56 A	6,58 A	6,58 A	6,60 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 U _{OC}	-0,37%/K
Temperature Coefficient of I _{SC}	0,03%/K
NOCT	45°C