



German  
Solar  
Production

[www.newtek-schmid.com](http://www.newtek-schmid.com)



**NEW-TEK**  
POWERED BY **SCHMID**

NEWTEK SM-250 60M

# Monocrystalline Photovoltaic Module

## Premium Quality Solar Module Data sheet

This high-performance NEWTEK SM solar module power from 260 W to 275 W is built using 60-and monocrystalline cells A-Grade with efficiency not less than 19.0%.

With a lifetime of at least 25 years, at reasonable cost, aesthetic design and ease of installation, our solar modules are high-quality product, both for the construction of large solar power plants as well as for autonomous power supply of a country house, multi-storey housing or villa.

**NEWTEK SM<sup>R</sup>** solar modules made by German technology using by German equipment from **SCHMID GROUP<sup>R</sup>** Company

### HIGH EFFICIENCY CELLS

We use only A-grade silicon cells with efficiency not less of 19.0% enabled by advanced manufacturing technology

19.0%

### LOW LIGHT EFFICIENCY

NEWTEK SM<sup>R</sup> solar modules are effective at low light: in the morning, at night and cloudy weather.



### LOTUS EFFECT

The latest glass processing technology enabled the Lotus Effect ensuring solar module surface self-cleaning properties, cleaning costs reduction and performance efficiency maintenance.



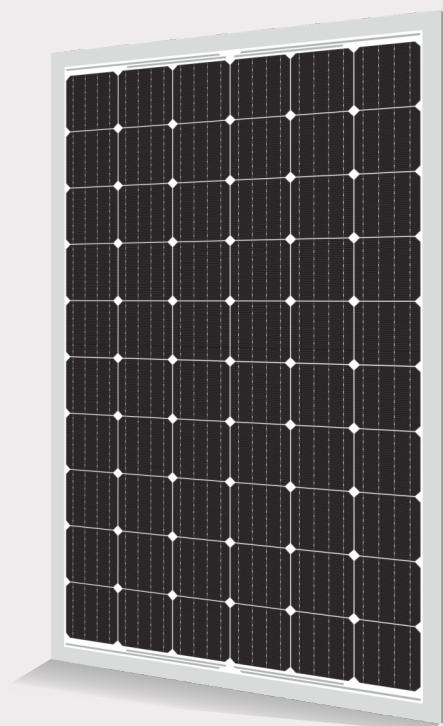
### PANEL THICKNESS

The latest technology and aluminum frame made our panels thin and light ensuring comfort at installation and transportation.



### WIND AND SNOW RESISTANCE

NEWTEK SM<sup>R</sup> solar modules can withstand up to 550 kg per m<sup>2</sup> of snow pressure and 160 km an hour of wind speed.



product warranty on materials and workmanship



linear power output warranty

Designed and  
produced in KG



TEST PARAMETERS:

Simulation of **temperature** cycles: 200 cycles ranging from -40°C to +85°C

**Vapour heat test** in climatic chamber: 1 000 hours at 85°C and 85% relative humidity.

Front and back panel **load test**: simulated wind load of 5400 Pa, equivalent to 5400 N/m<sup>2</sup> or 550 kg/m<sup>2</sup>.

Simulated **impact of hailstones**: 25 mm diameter at 23 m/s from a distance of one meter

TECHNICAL SPECIFICATIONS:

**Frame:** Silver, anodized aluminium alloy

**Cells:** 60 polycrystalline cells, 156x156mm, 4BB

**Connectors:** Double isolated, UV-resistant 4mm 2 cable with weatherproof solar plugs MC4

**Diodes:** 3x2 bypass diodes protect the module when in shade

**Assembly:** Front: highly translucent, toughened glass 3,2 mm  
Back: white TPT film. Embedding material: EVA

**Protection degree:** IP65

ELECTRICAL CHARACTERISTICS

	NEWTEK 260 60M	NEWTEK 265 60M
STC Peak Power [Wp]	260	265
Cell Efficiency [%]	18.7	19.1
Module Efficiency [%]	16,4	16,7
Test conditions	STC	STC
Voltage at Pmax Vmpp [V]	31,00	31,10
Current at Pmax Imp [A]	8,40	8,55
Open-circuit voltage Voc [V]	38,00	38,30
Short-circuit current Isc [A]	8,90	9,10

	NEWTEK 270 60M	NEWTEK 275 60M
STC Peak Power [Wp]	270	275
Cell Efficiency [%]	19.5	19.8
Module Efficiency [%]	17,0	17,3
Test conditions	STC	STC
Voltage at Pmax Vmpp [V]	31,30	31,40
Current at Pmax Imp [A]	8,65	8,75
Open-circuit voltage Voc [V]	38,50	38,70
Short-circuit current Isc [A]	9,20	9,30

NOCT is measured at 800W/m<sup>2</sup>, 20°C ambient and 1m/s wind Speed. Specifications are subject to change. Parameters are rated at Standard Test Conditions (irradiance of 1000W/m<sup>2</sup>, AM 1.5, cell temp. 25°C).

ELECTRICAL PERFORMANCE PARAMETERS

Max. system voltage U [V]	1000
Temperature coefficient of Isc %/K	+0,07 +/- 0,02
Temperature coefficient of Voc %/K	- 0,31 +/- 0,01
Temperature coefficient of Pmax %/K	- 0,46 +/- 0,02
NOCT	46 +/- 2° C
Efficiency reduction at 200 W/m2, 25° C	<5 %

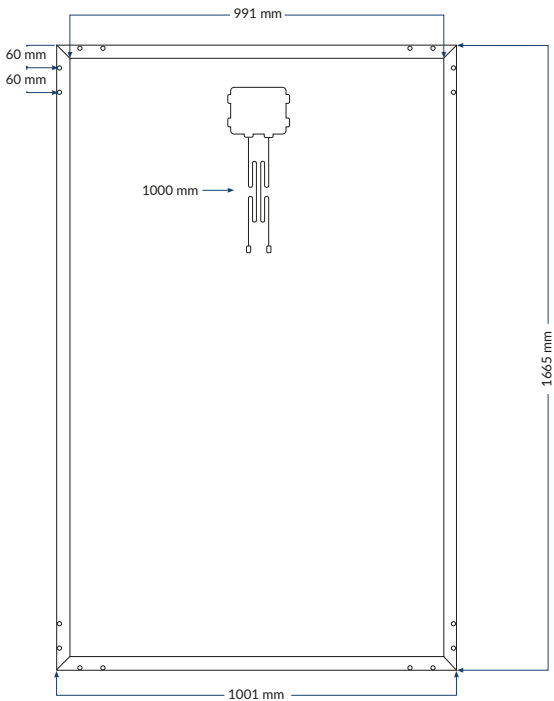
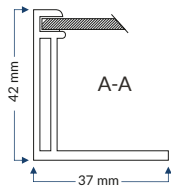
DIMENSIONS AND WEIGHT:

**Length:** 1665 mm

**Width:** 1001 mm

**Height:** 42 mm

**Weight:** 18,5 kg



PERFORMANCE DATA:

**Positive power output tolerance:** +5/-0 %

**12 year period predicted output :** Min. 90%

**25 year period predicted output :** Min. 80%

**Production warranty:** 10 years

PACKAGING SPECIFICATIONS

Modules per pallet	45
Pallets in a truck	13
Packaging dimensions ‘	
(2 pallet tower L/W/H)	1760/1100/ 2440 mm
Pallet + modules weight	835 kg

QUALIFICATIONS AND CERTIFICATIONS:



IEC 61215 IEC 61730



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