



German  
Solar  
Production



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

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NEWTEK GRADE A+ and GRADE A series  
NEWTEK NTE 250/255/260/265/270-60P

# Polycrystalline Photovoltaic Module

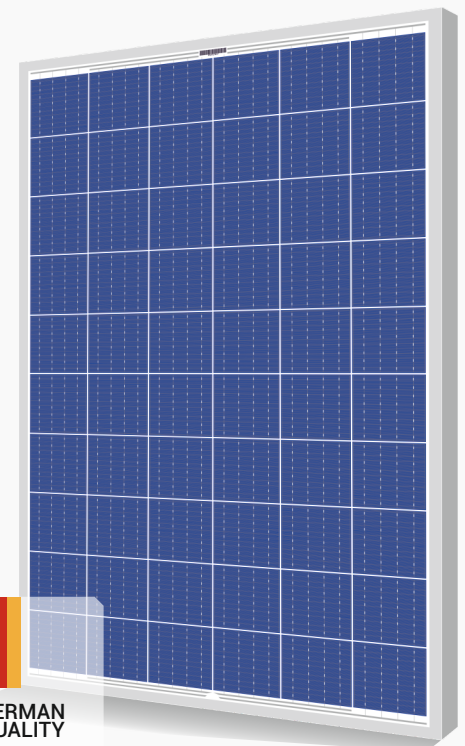
Premium Quality  
PV Solar Module

## Data sheet

**New-Tek LLC's** PV solar modules by the series **GRADE A+** and **GRADE A** use the latest innovative polycrystalline cells of the Class A with an efficiency from 18.5%. This ensures maximum output power of the PV modules and system reliability. The output power of the modules ranges from 250 W to 270 W.

Combining cost-effective, aesthetic design, ease of installation and long service life (min 25 years), our PV modules are the best solution for the construction of a industrial solar power plant, as well as for stand-alone or backup power supply of suburban, private and multi-storey housing.

**New-Tek NTE PV** solar modules are manufactured by technology in compliance with all standards, on the german equipment from **SCHMID Group**.



GERMAN  
QUALITY

10  
years

10 years manufacturer's warranty for materials and workmanship compliant to industrial standard

4BB

Greater number of bus-bars provide uniform heating  
Guarantee lower degradation of silicon cells

P-Max

High performance in low light is reached  
by unique technology and materials

Wp

Positive power tolerance from 0-5W  
Higher guaranteed yield

550 KG

Snow load up to 550 kg / m<sup>2</sup>  
Durable operating capacity in extreme conditions

100%

100% inspection of manufacturing at 3 stages  
and control over micro cracks on the cells

Soft Grip

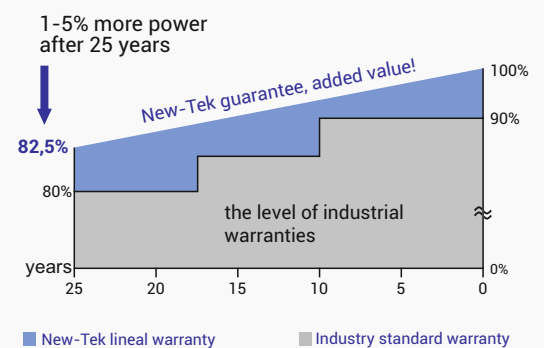
Reinforced anodized aluminum frame  
Higher durability and ease of installation

IP 65

High quality of Junction Box with climate membrane  
for condensation prevention

lotus

The front glass is anti-reflective layer coated  
with the "Lotus" effect for high performance



10 YEARS PRODUCT · 25 YEARS POWER

Designed in GE  
Produced in KG



# NTE 250/255/260/265/270-60P

POLYCRYSTALLINE PV SOLAR MODULE

Poly-Series  
NEWTEK GRADE A+ and GRADE A

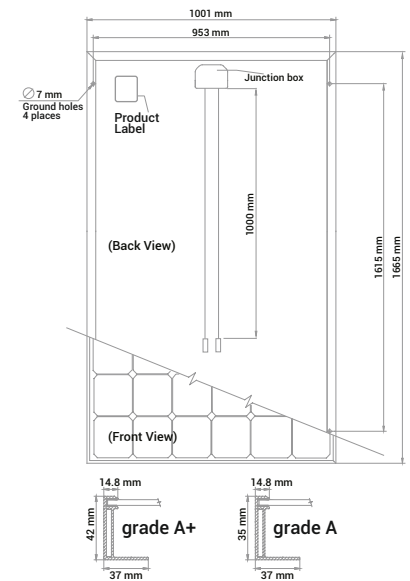
## ELECTRICAL DATA

| STC (test conditions)           | NTE 250<br>60P | NTE 255<br>60P | NTE 260<br>60P | NTE 265<br>60P | NTE 270<br>60P |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|
| Maximum Power at STC (Pmax)     | 250 W          | 255 W          | 260 W          | 265 W          | 270 W          |
| Optimum Operating Voltage (Vmp) | 30.50 V        | 30.70 V        | 31.00 V        | 31.10 V        | 31.30 V        |
| Optimum Operating Current (Imp) | 8.20 A         | 8.30 A         | 8.40 A         | 8.50 A         | 8.60 A         |
| Open Circuit Voltage (Voc)      | 37.80 V        | 38.10 V        | 38.40 V        | 38.70 V        | 39.00 V        |
| Short Circuit Current (Isc)     | 8.70 A         | 8.80 A         | 8.90 A         | 9.00 A         | 9.10 A         |
| Cell Efficiency                 | 18.10 %        | 18.30 %        | 18.50 %        | 18.80 %        | 19.20 %        |

Electric characteristics at normal operation conditions (STC)  
STC Conditions: Irradiance: 1 000 W/m<sup>2</sup>, cell temperature: 25°C, AM=1.5. Tolerances at STC conditions: Pmax ±5%, Voc ±3%, Isc ±4%

| NOCT (test conditions)          | NTE 250<br>60P | NTE 255<br>60P | NTE 260<br>60P | NTE 265<br>60P | NTE 270<br>60P |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|
| Maximum Power at STC (Pmax)     | 183 W          | 186 W          | 190 W          | 193 W          | 196 W          |
| Optimum Operating Voltage (Vmp) | 27.20 V        | 27.60 V        | 27.90 V        | 28.30 V        | 28.70 V        |
| Optimum Operating Current (Imp) | 6.60 A         | 6.70 A         | 6.80 A         | 7.00 A         | 7.10 A         |
| Open Circuit Voltage (Voc)      | 34.80 V        | 34.90 V        | 35.00 V        | 35.10 V        | 35.20 V        |
| Open Circuit Current (Isc)      | 7.10 A         | 7.20 A         | 7.30 A         | 7.40 A         | 7.50 A         |

Electric characteristics at normal operation conditions (NOCT)  
NOCT Conditions (46 ± 2° C): Irradiance: 800 W/m<sup>2</sup>, ambient temperature: 20°C, AM=1.5, wind speed: 1m/s



## GENERAL CHARACTERISTICS

|                     |                 |
|---------------------|-----------------|
| Dimensions GRADE A+ | 1665x1001x42 mm |
| Dimensions GRADE A  | 1665x1001x35 mm |
| Weight              | 18,5 kg         |

## OPERATIVE CONDITIONS

|                                   |                 |
|-----------------------------------|-----------------|
| Power Tolerance                   | 0/+5 W          |
| Maximum System Voltage            | 1.000 V         |
| Maximum Series Fuse Rating        | 13 A            |
| Operating Temperature Range       | -40° C to 85 °C |
| Maximum Static Load, Front (Snow) | 1 600 Pa        |
| Maximum Static Load, Back (Wind)  | 1 600 Pa        |
| Safety Factor                     | ≥1.5            |

## MECHANICAL CHARACTERISTICS

|  |  |
|--|--|
| Solar Cells - GRADE A                      | Polycrystalline silicon cells 156x156 mm, 4BB    |
| Cell Arrangement                           | 60 cells in module                               |
| Front Cover ("Lotus" effects for GRADE A+) | Low-iron tempered glass, 3.2 mm, with AR         |
| Reinforced Frame (wall thickness A+/A)     | Anodize aluminum alloy (2.0/1.6 mm)              |
| Encapsulant                                | Composite film (EVA+Backsheet)                   |
| Junction Box (A+/A)                        | IP65, climatic membrane / NO                     |
| Bypass Diodes                              | 3  |
| Cables (length/area)                       | 1000 mm / 4 mm <sup>2</sup> , (IEC), 12 AWG (UL) |
| Connectors                                 | PV4-S/MC4  |

## PACKAGING

|                              |                   |
|------------------------------|-------------------|
| Modules per Pallet           | 30/45             |
| No pallets per track         | 15                |
| Dimensions of Pallet (L/W/H) | 1780x1100x2200 mm |

Number of PV Modules in the container:  
NTE GRADE A+ 20ft - 276 pcs / 40ft - 598 pcs  
NTE GRADE A 20ft - 324 pcs / 40ft - 702 pcs

## TEMPERATURE RATING

|                        |            |
|------------------------|------------|
| NOCT                   | 46 ± 2° C  |
| Coefficients of (Pmax) | -0.43 %/°C |
| Coefficients of (Voc)  | -0.33 %/°C |
| Coefficients of (Isc)  | +0.05 %/°C |

## CERTIFICATIONS



IEC 61215 IEC 61730

IEC 61215, IEC 61730-1, IEC 61730-2, RST, EAC

### Caution:

To operate, install and manage New-Tek's modules, read the installation manual and use carefully.

### Observations:

This Datasheet is subject to change without notice due to continuous improvement of our products. You can find all records of the updates on our website [www.newtek-schmid.com](http://www.newtek-schmid.com) or by contacting one of our sales staff. All rights reserved ©NEWTEK ®



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