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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**New-Tek LLC  
NEWTEK NTE 280/290/300-60M  
NTE 280-60M**

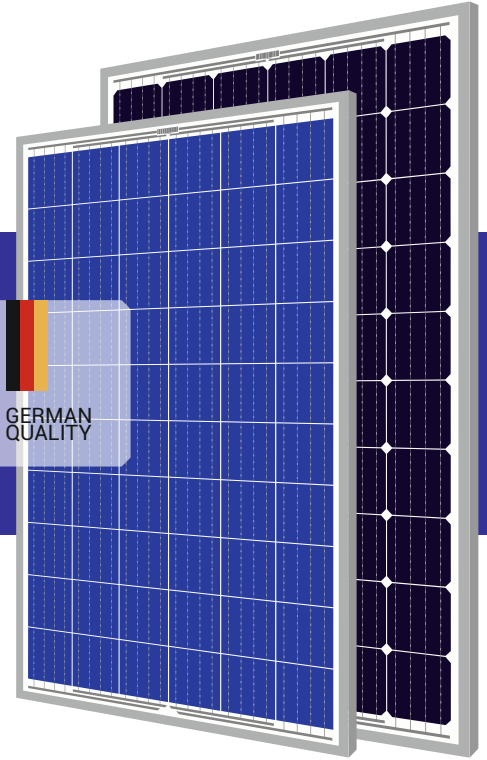
Also available on the web at  
[EnergyPal.com/new-tek-llc-solar-panels/nte-280-60m](http://EnergyPal.com/new-tek-llc-solar-panels/nte-280-60m)

# New-Tek Photovoltaic Module

Premium Quality PV Solar Module

GRADE **A** SERIES

Multi-Crystalline  
 NTE 250/255/260/265/270-60P  
 Mono-Crystalline  
 NTE 280/285/290/295/300-60M



For Both Residential & Commercial Application

60

GRADE A PERC Cells



More Power Generation In Low Light

POWERED BY SCHMID

Equipment German Quality



**New-Tek LLC** is a manufacturer of solar photovoltaic modules and a provider of integrated business solutions for private, commercial and industrial sectors.

The **NEWTEK NTE** photovoltaic modules of the **GRADE A+ / GRADE A series** use the latest innovative class A mono and poly crystalline cells, which ensure maximum output power of the modules and stable operation of the solar energy system.

Our PV in combination with cost-effective price, aesthetic design, ease of installation and long service life (minimum 25 years) are **the best solution** for the construction solar system for industrial and for private sectors.

10 years

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



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



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



Positive power tolerance from 0-5W  
 Higher guaranteed yield



Tempered glass and reinforced frame withstand severe weather conditions: heavy snowfall and strong wind.



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



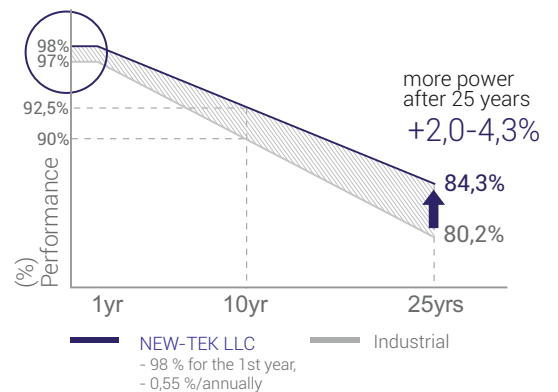
Maximum accuracy class of measuring equipment A+A+A+  
 Guaranteed accuracy of the output indicators of the module



Quality materials, German Equipment and quality control provide reliable 25 years warranty on output power



New-Tek's products have been tested and certified on IEC and UL standards by TUV Rheinland



### New-Tek LLC's Warranty Provisions

- 10 YEARS** • 10-Year Product Warranty  
• For materials and processing
- 25 YEARS** • 25-Year Performance Warranty  
• Initial year: 98%  
• Linear warranty after second year: with 0.7% annual degradation, 80.2% is guaranteed up to 25 years

Designed in GE  
 Produced in KG



Electrical Characteristics

		Multi-Crystalline Module (NTE-60P)					Mono-Crystalline Module (NTE-60M)					
		250	255	260	265	270	280	285	290	295	300	
Nominal Output	(P <sub>mpp</sub> )	W	250	255	260	265	270	280	285	290	295	300
Voltage at Pmax	(V <sub>mpp</sub> )	V	30.6	30.63	32.0	32.0	30.3	30.78	31.57	31.83	31.9	32.15
Current at Pmax	(I <sub>mpp</sub> )	A	8.25	8.35	8.2	8.3	9.1	9.1	9.05	9.17	9.26	9.35
Open Circuit Voltage	(V <sub>oc</sub> )	V	37.7	37.62	41.0	41.2	37.4	37.9	38.85	39.52	39.5	39.55
Short Circuit Current	(I <sub>sc</sub> )	A	8.7	8.79	8.7	8.8	9.5	9.55	9.5	9.71	9.7	9.75
Module Efficiency		%	15.3	15.6	15.9	16.2	16.5	17.1	17.4	17.7	18.0	18.3
Cell Type		-	6" (156x156), multi-crystalline silicon					6" (156x156), PERC mono-crystalline silicon				
Maximum System Voltage	V		1,000					1,000				
Temperature Coefficient of Pmax	%/K		-0.43					-0.41				
Temperature Coefficient of Voc	%/K		-0.33					-0.30				
Temperature Coefficient of Isc	%/K		+0.05					+0.05				

MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC<sup>1</sup>

<sup>1</sup>All data at STC (Standard Test Conditions). Above data may be changed without prior notice.

Mechanical Characteristics

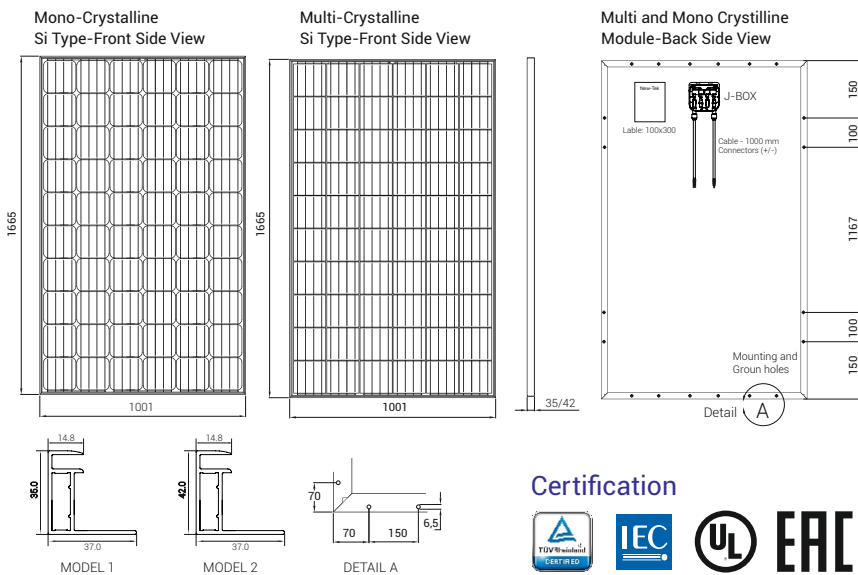
Dimensions	1,665 mm (L) × 1,001 mm (W) × 35 mm (H)
Weight	Approx. 18.7 kg
Solar Cells	60 cells in series (6 × 10 matrix) (Grade A Cell, PERC Cell 4/5/6 BB)
Output Cables	4 mm <sup>2</sup> cables with polarized weatherproof connectors, IEC certified (UL listed) Length 1.0 m
Junction Box	IP67, weatherproof, IEC certified (UL listed)
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade
Construction	Front : Anti-reflection coated glass, 3.2 mm Encapsulant : EVA   Back Sheet : Weatherproof film
Frame	Clear anodized aluminum alloy type 6063

Installation Safety Guide

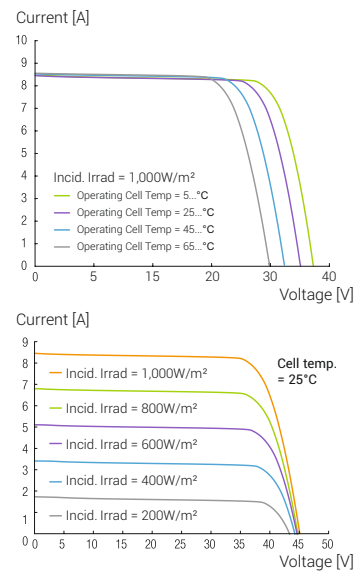
- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

Nominal Operating Cell Temperature	46°C ± 2
Operating Temperature	-40 to +85°C
Maximum System Voltage	DC 1,000 V (IEC) DC 1,000 V (UL)
Maximum Reverse Current	15 A

Module Diagram (mm)



I-V Curves



Certification



IEC: 61215-1, 61215-1-1, 61215-2 | IEC: 61730-1, 61730-2  
UL: 61730:2017-1, 61730:2017-2

**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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