

NEWTEK NTE premium photovoltaic modules

GRADE **A** SERIES
Standard
NTE60 280/290/300
High
NTE60 310/320/325



For Booth
Residential &
Commercial
Application

60

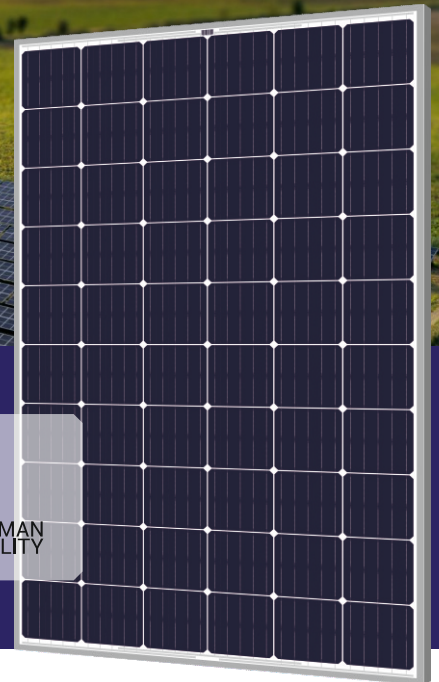
GRADE A
PERC
Cells



More power
generation
In Low Light

POWERED
BY SCHMID

Equipment
German
Quality



www.newtek-schmid.com
office@newtek-schmid.com

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

The **NEWTEK NTE** photovoltaic modules of the **GRADE A+ / GRADE A series** use the latest innovative class A mono and polycrystalline cells, which ensure maximum output power of the modules and stable operation of the PV solar energy system. Our PV in combination with a cost-effective price, aesthetic design, ease of installation, and long service life (minimum 25 years) is the **best solution** for the construction of PV solar systems for industrial, commercial, and residential sectors.

12

лет

12 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



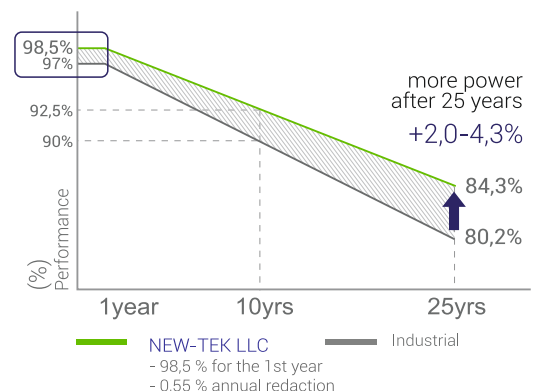
Maximum accuracy class of measuring equipment A+A+A+
Guaranteed accuracy of the output indicators of the module



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 TÜV Rheinland



New-Tek LLC's Warranty Provisions

12
YEARS

- 12-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



Mono-Series Photovoltaic Modules NEWTEK NTE

Electrical Characteristics

			Standard Models (NTE XXX-60M)					High Models (NTE XXX-60MP)				
			NTE 280	NTE 285	NTE 290	NTE 295	NTE 300	NTE 305	NTE 310	NTE 315	NTE 320	NTE 325
Nominal Output	(P _{mpp})	W	280	285	290	295	300	305	310	315	320	325
Voltage at P _{max}	(V _{mpp})	V	30.85	31.60	31.70	32.00	32.20	32.60	33.00	33.50	33.90	34.20
Current at P _{max}	(I _{mpp})	A	9.10	9.05	9.17	9.26	9.35	9.39	9.43	9.44	9.48	9.52
Open Circuit Voltage	(V _{oc})	V	38.60	38.85	39.52	39.50	39.55	40.10	40.25	40.30	40.40	40.60
Short Circuit Current	(I _{sc})	A	9.50	9.55	9.71	9.72	9.75	9.85	9.90	9.93	9.96	9.98
Module Efficiency		%	17.1	17.4	17.7	18.0	18.3	18.6	18.9	19.2	19.5	19.8
Cell Type		-	6" (156.75x156.75 mm), PERC mono-crystalline, 5BB									
Maximum System Voltage		V	1 000					1 000				
Temperature Coefficient of P _{max}	%/°C		-0.41					-0.41				
Temperature Coefficient of V _{oc}	%/°C		-0.30					-0.30				
Temperature Coefficient of I _{sc}	%/°C		+0.05					+0.05				

MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹

*All data at STC (Standard Test Conditions). Above data may be changed without prior notice.

Mechanical Characteristics

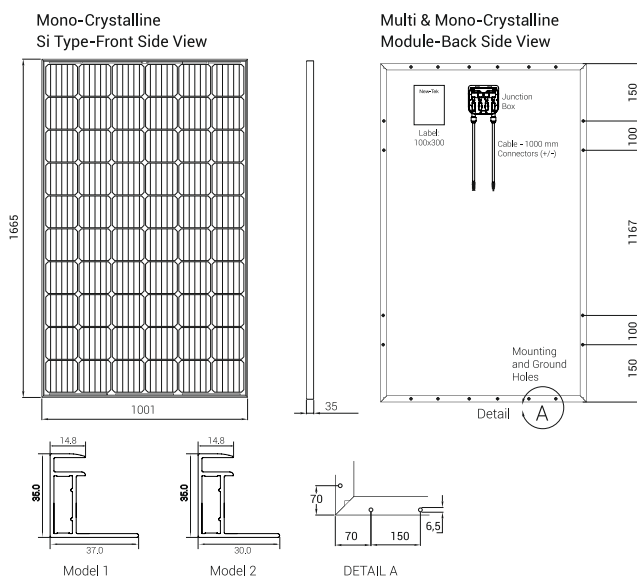
Dimensions	1 665 mm (L) × 1 001 mm (W) × 35 mm (H)
Weight	approximately 18.7 kr
Series & Solar Cells	60 cells in series (6 × 10) (Grade A, PERC, 5 bus-bars)
Outputs cables	4 mm ² cables with polarized weatherproof connectors, IEC certified (UL listed), length 1.0 m
Junction Box	IP67, weatherproof, IEC certified (UL listed)
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade
Construction	Front: Anti-reflection coated glass, 3.2 mm Encapsulate: 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	от -40 до +85°C
Maximum System Voltage	DC 1 000 V (IEC) DC 1 000 V (UL)
Maximum Reverse Current	15 A

Module Diagram (mm)

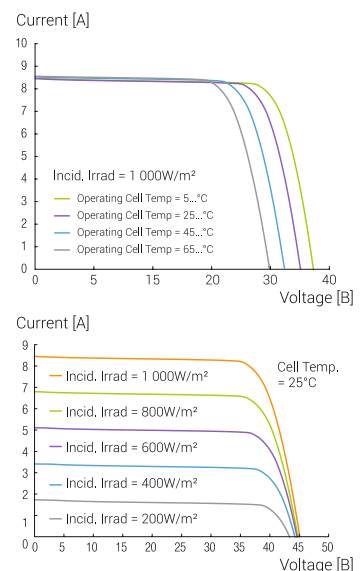


Certification



IEC: 61215-1, 61215-1-1, 61215-2;
IEC: 61730-1, 61730-2;
UL: 61730:2017-1, 61730:2017-2.

I-V Curves



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 or by contacting one of our sales staff. All rights reserved ©NEWTEK®



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NEWTEK PV MODULES AND SOLAR SYSTEMS
303 Ch. Aitmatov Street, 720045 Bishkek, Kyrgyz Republic
tel: (+996) 770 05 05 51
mail: office@newtek-schmid.com
www.newtek-schmid.com

Authorized Partner:

