



GERMAN
PV SOLAR
PRODUCTION



NEW TEK
POWERED BY SCHMID

NEWTEK NTE premium photovoltaic modules

GRADE
A
SERIES

Standard
NTE72 380/385/390
High
NTE72 400/405/410



For Booth
Residential &
Commercial
Application

72

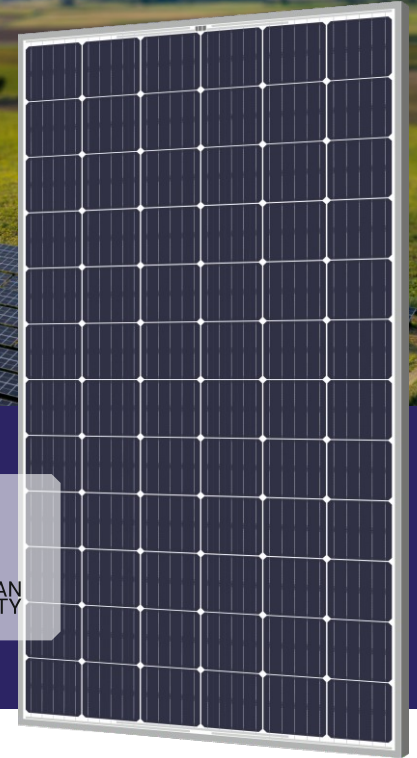
GRADE A
PERC
Cells



More power
generation
In Low Light

POWERED
BY SCHMID

Equipment
German
Quality



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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



5BB

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



+B_T

Positive power tolerance from 0-5W
Higher guaranteed yield



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



100%

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



Triple A+

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



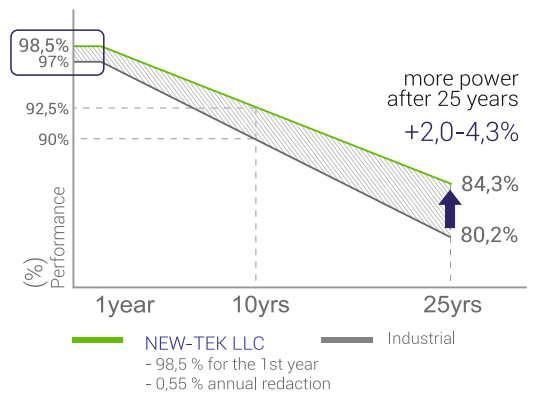
NEW-TEK

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



IEC | UL

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 (NTE XXX-72M)			HIGH (NTE XXX-72M)		
			NTE 380	NTE 385	NTE 390	NTE 400	NTE 405	NTE 410
Nominal Output	(P _{mpp})	W	380	385	390	400	405	410
Voltage at P _{max}	(V _{mpp})	V	39.59	39.91	40.22	40.75	41.12	41.29
Current at P _{max}	(I _{mpp})	A	9.61	9.65	9.71	9.82	9.87	9.93
Open Circuit Voltage	(V _{oc})	V	48.78	49.07	49.38	49.93	50.23	50.51
Short Circuit Current	(I _{sc})	A	10.12	10.17	10.22	10.32	10.38	10.42
Module Efficiency		%	19.4	19.6	19.8	20.2	20.4	20.7
Cell Type		-	6" (156.75x156.75 mm / 158x158 mm), mono, PERC, 5BB / 9BB					
Maximum System Voltage		V	1 000 (IEC)			1 000 (IEC)		
Temperature Coefficient of P _{max}	%/°C		-0.530			-0.370		
Temperature Coefficient of V _{oc}	%/°C		-0.390			-0.300		
Temperature Coefficient of I _{sc}	%/°C		+0.031			+0.060		

MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹
 *All data at STC (Standard Test Conditions). Above data may be changed without prior notice.

Mechanical Characteristics

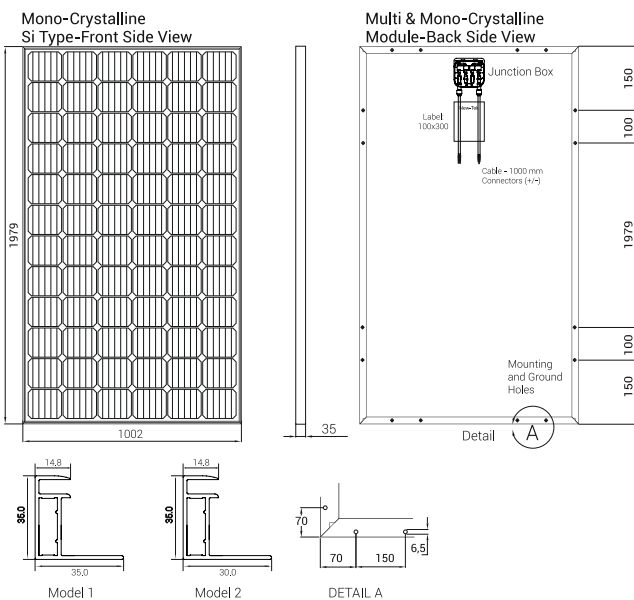
Dimensions	1 979 mm (L) × 1 002 mm (W) × 35 mm (H)
Weight	approximately 22,5 kg
Series & Solar Cells	72 cells in series (6 × 12) (Grade A, PERC, 5/9 bus-bars)
Outputs cables	4 mm ² cables with polarized weatherproof connectors, IEC certified (UL listed), length 1.0 m
Junction Box	IP67, weatherproof, 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	45°C ± 2
Operating Temperature	от -40 до +85°C
Maximum System Voltage	DC 1 000 B (IEC) DC 1 000 B (UL)
Maximum Reverse Current	15 A

Module Diagram (mm)

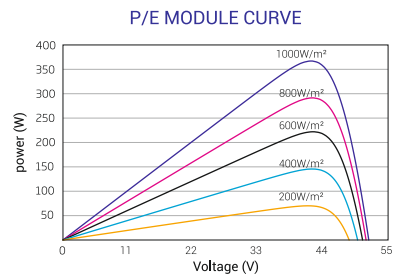
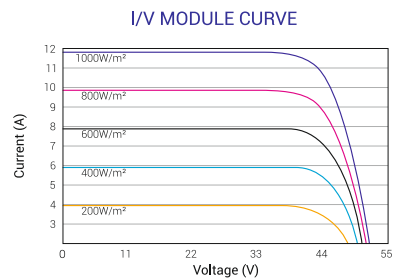


Certification



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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