New Vision Energy Solar Modules NVE - T3 - Series

New Vision Energy Solar Modules are designed for large electrical power requirements. With a 20 year warranty, the NVE-T3-Series has superb durability to withstand rigorous operating conditions. Ideal for grid-connected and remote power systems, the NVE-T3-Series offers high usable power per square foot of solar array. NVE Solar Modules are the perfect choice for those who demand outstanding performance and exceptional cost- & performance ratio!



- High efficiency: High efficiency amorphous silicon solar cell Even if under the weak light, the solar module can produce maximum power output
- Tempered glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- Junction box: Multi function water proof junction box
- Long lifetime: ≥20 years Less power decrease
- 20 years module output warranty
 90% of the specified minimum output of the module for a 10-year period,
 80% of the specified minimum output of the module for a 20-year period after shipment)
- —— Qualified for the following IEC-61646 tests: insulation, wet leakage current, thermal cycling, humidity freeze, damp heat, mechanical load, robustness of termination, twist, and hail.

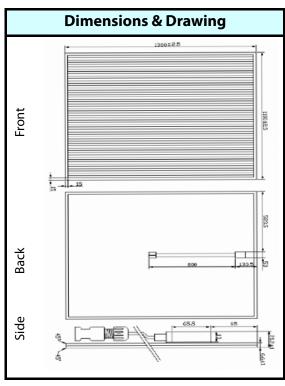
New Vision Energy Solar Modules deliver highest efficiency and reliable power. NVE modules are the perfect choice for those who demand outstanding performance and exceptional cost- & performance ratio!

NEW VISION ENERGY

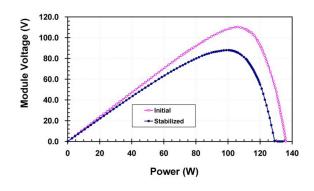


NVE - T3 - Series | **Specification Data**

Physical Specifications		
Active Material of Cell	Amorphous Silicon	
Junction Type of Cell	Single Junction	
Material for Encapsulation	Polyvinylbutyral (PVB), thickness 0.76mm	
Front Cover	3.2 mm thickness float glass	
Back Cover	3.2 mm thickness tempered float glass	
Wiring material	Tin & silver coated copper ribbon, thickness: 0.1 mm	
Junction box	Multi Contact PV-JB-LC-2	
Junction Box Cable Length	800 mm x 2 / Ф4mm	
See-through	No	
Frame	No	
Weight	25.5 ± 0.3 Kg	
	Length (mm): 1300 ± 2.5 mm	
Dimension	Width (mm): 1100 ± 2.5 mm	
Dimension	Thickness (mm): 6.6 ± 1.0 mm (without junction box)	
	21.2 ± 1.0 mm (with junction box)	



Electrical Specifications			
	Nominal Power (Pmax)	110 Watt	
Averaged Initial	Open Circuit Voltage (Voc)	136 Volt	
Averaged Initial Performance at STC*	Short Circuit Current (Isc)	1.20 A	
r enormance at 51C	Voltage at Pmax (Vpm)	105 Volt	
	Current at Pmax (Ipm)	1.08 A	
	Nominal Power (Pmax)	87 Watt	
Averaged Ctabilized	Open Circuit Voltage (Voc)	129 Volt	
Averaged Stabilized Performance at STC*	Short Circuit Current (Isc)	1.10 A	
r enormance at 51C	Voltage at Pmax (Vpm)	100 Volt	
	Current at Pmax (Ipm)	0.87 A	
Power Change per °C		-0.25%	
Max. System Voltage		1000 Volt D.C.	











New Vision Energy Solar Modules NVE - T1 - Series

New Vision Energy Solar Modules are designed for large electrical power requirements. With a 25 year warranty, the NVE-T1-Series has superb durability to withstand rigorous operating conditions. Ideal for grid-connected and remote power systems, the NVE-T1-Series offers high usable power per square foot of solar array. NVE SOlar Modules are the perfect choice for those who demand outstanding performance and exceptional cost- & performance ratio!



- —— High efficiency: High efficiency crystalline solar cell.

 Even if under the weak light, the solar module can produce maximum power output.
- Tempered glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- EVA and TPT: Using high quality EVA and TPT to prevent destroying and water.
- —— Al frame: Without screw, corner connection. 6 holes on the frame can be installed easily.
- —— Junction box: Multi function junction box with water proof.
- —— Long lifetime: ≥25 years; Less power decrease.
- Good performance of preventing from atrocious weather such as wind and hails.
- Resisting moisture and etching effectively, not effect by geology.
- The certificate issued by international authority ISO Quality Management system, CE, IEC, UL, TUV
- ---- 25 years module output warranty

New Vision Energy Solar Modules deliver highest efficiency and reliable power. NVE modules are the perfect choice for those who demand outstanding performance and exceptional cost- & performance ratio!

NEW VISION ENERGY

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NVE - T1 - Series | Specification Data 210/220/230

Specification				
Maximum Power	230W	220W	210W	Wp
Power Tolerance	±3	±3	±3	%
Optimum operating voltage	29,6	29,4	29,1	V
Optimum operating current	7,77	7,48	7,22	А
Open circuit voltage	37	36,7	36,4	V
Short circuit current	8,63	8,31	8,02	А
Maximum system voltage	1000	1000	1000	V DC
Module efficiency	14,1	13,6	12,9	%
Voltage temperature coefficient	- (165±10)	- (165±10)	- (165±10)	mV/°C
Current temperature coefficient	+0.06±0.01	+0.06±0.01	+0.06±0.01	%/°C
Power temperature coefficient	-0.5±0.05	-0.5±0.05	-0.5±0.05	%/°C

Information on CELL				
Cell type	polycrystalline silicon solar cell			
Cell dimension	156×156 mm			mm
Cell shape	Square			
Number of cell	60			series
Efficiency of cell	16,2 15,5 14,8			%

STC		
AM condition	AM1.5	
Intensity of illumination	1000	W/m²
Temperature	25	°C

Laminating data				
	Length(mm)	1640	mm	
Dimension	Width(mm)	992	mm	
	Thickness(mm)	50	mm	
Installation dimension	Length(mm)	410	mm	
installation dimension	Width(mm)	946	mm	
Weight		21	Kg	
Frame Material		Clear anodized aluminium frame		
Surface glass	Surface glass		ed solar glass	
Thickness of glass		3,2	mm	
Laminating material		EVA		
Backsheet material		TPT		

Maximum data				
Operating temperature	-40℃~+85℃	°C		
Storage temperature	-40°C∼+85°C	°C		
Instulation cut voltage	1000	DC		
Maximum wind resistance	60m/s	N/m² or max Km/h		
Surface maximum load capacity	2400	Pa		
Maximum hail load capacity	25mm	23m/s		



INTERNATIONAL LIMITED

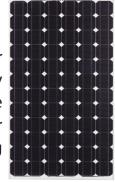






New Vision Energy Solar Modules NVE - T4 - Series

New Vision Energy Solar Modules are designed for large electrical power requirements. With a 25 year warranty, the NVE-T4-Series has superb durability to withstand rigorous operating conditions. Ideal for grid-connected and remote power systems, the NVE-T4-Series offers high usable power per square foot of solar array. NVE Solar Modules are the perfect choice for those who demand outstanding performance and exceptional cost- & performance ratio!



- » High efficiency: High efficiency mono-crystalline solar cell Even if under the weak light, the solar module can produce maximum power output
- » Tempered glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- » Junction box: Multi function water proof junction box
- » Long lifetime: ≥25 years Less power decrease
- » 25 years module output warranty
- » Qualified for the following IEC-61215 tests: insulation, wet leakage current, thermal cycling, humidity freeze, damp heat, mechanical load, robustness of termination, twist, and hail.

New Vision Energy Solar Modules deliver highest efficiency and reliable power. NVE modules are the perfect choice for those who demand outstanding performance and exceptional cost- & performance ratio!

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NVE - T4 - Series | Specification Data



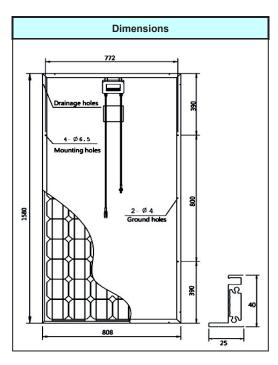


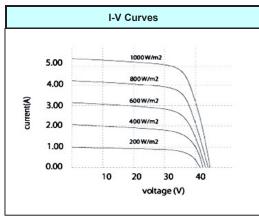












Electrical Characteristics				
Power	165Wp	170Wp	175Wp	180Wp
Open circuit voltage	43,7V	43,9V	44,0V	44,5V
Maximum power voltage	35,0V	35,5V	35,6V	36,0V
Short circuit current	5,14A	5,25A	5,40A	5,45A
Maximum power current	4,71A	4,79A	4,92A	5,00A
Encapsulated solar cell efficiency	15,5%	16,0%	16,5%	17,0%
Insulation	≥ 100 MΩ			
Maximum system voltage	1000V			
voltage standoff	AC 2000 DC 3000V		'	
series fuse rating	10A			

Physical Characteristics		
Operating temperature	-40° C to +90° C	
Storage temperature	-40° C to +90° C	
Type of output terminal	Lead wire with connector	
Pressure Bearing	≥ 2400 Pa	
Wind Bearing	≥ 5400 Pa	
Hail Impact Test	225g steel ball drops from height of 1 m	

Specification				
Cell type Mono-crystalline				
Cell dimension	125 x 125	;	mm	
Number of cell	72 (6x12)	72 (6x12) series		
	Length(mm)	1580	mm	
Dimension	Width(mm)	808	mm	
	Thickness(mm)	40	mm	
Weight	17	17 Kg		

Temperature Coefficients			
NOCT 45 °C ± 2 °C			
Temperature coefficient of Isc	+ 0,05% / °C		
Temperature coefficient of Voc	- 0,34% / °C		
Temperature coefficient of Pm	- 0,5% / °C		
Power output Tolerance	± 3%		

