NanoPV

NanoPV Solar Inc, USA.

NanoPV T-100

At a glance

- Performance guarantee at 90% power output with in 10 years
- Performance guarantee at 80% power output with in 25 years
- ISO 9001:2008 (Quality Management System) certified factory
- SGS, CQC, ISO 14000 certified products
- TUV NORD, CE, CCC conformity

ISO 9001 : 2008

About NanoPV

NanoPV is the world leader in high efficiency ,cost effective NanoPV solar panel manufacturing and provider of the lowest cost of solar electricity in the world. Following is the overview of NanoPV.

- Leader in high efficiency low cost thin-film Si PV technology
- US New Jersey based company with subsidiaries in Asia
- Manufactures solar panels, provides manufacturing equipment and end-to-end turn key solutions.
- Proven, highly profitable baseline solar module manufacturing technology in the market
- Unique technology based on nano-crystalline silicon, a-Si : H and proprietary light-trapping technologies – Owns several IPs
- Lowest manufacturing cost per Watt
- Team of scientist and manufacturing professionals with experience in the field
- Global Network

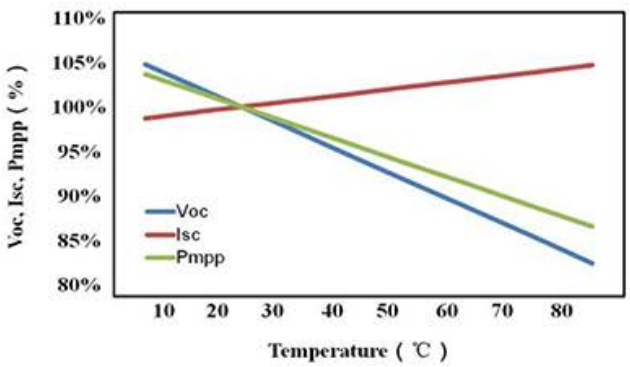
Electrical Characteristics

Power output (W) Wp	100
Open circuit voltage (V) Voc	119.9
Short circuit current (I) Isc	1.42
Peak power voltage (V) Vmp	88.63
Peak power current (A) Imp	1.13
Maximum system voltage	1000V D. C. (TUV) ; 600V D. C. (UL)
Power tolerance	+ 3.0%
Maximum over-current protection value	3A
Temperature coefficient	Isc: 0.08%/°C ; Voc: -0.30%/°C ; Pmpp: -0.23%/°C
Standard test condition	Stc: 1000W/m², AM 1.5, 25°C

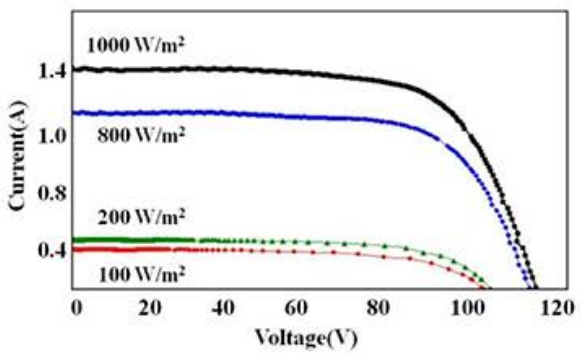
Mechanical Characteristics

Product transmittance	/
Length (mm)	1300mm ± 2mm
Width (mm)	1100mm ± 2mm
Thickness (mm)	7.9mm ± 0.8mm
Weight (kg)	26Kg ± 2Kg
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V D. C
Maximum load weight	≥2400Pa

Temperature coefficient curve



I V curve under different illumination levels



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