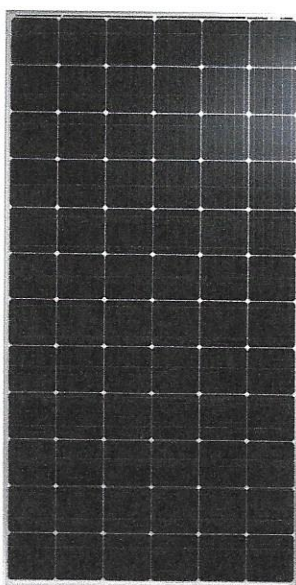


NPV MP 365 - 380W

Monocrystalline Solar Module

72 Cells / Mono PERC / 1500V DC / 19.6% Maximum Efficiency



KEY FEATURES



Higher module conversion efficiency

Maximize limited space with mono PERC high efficiency cells



Highly reliable due to stringent quality control

100% EL double inspection
In-house testing goes well beyond certification requirements



Excellent low light performance

Excellent low light performance on cloudy days
mornings and evenings



Certified to withstand the most challenging environment

2400 Pa wind load • 5400 Pa snow load • 25 mm hail stones at 82 km/h
salt mist, ammonia corrosion and sand blowing testing



High system voltage Compatible

Maximum 1500V DC system voltage saves total system cost



IP67 junction box

High waterproof level for long term weather endurance

QUALIFICATIONS & CERTIFICATES

- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- OHSAS 18001: Occupational Health and Safety

NanoPV SOLAR

NanoPV Solar as the pioneering solar technology company of USA, is the leader in high energy efficiency cost effective solar module process and technology. NanoPV manufactures the most advanced solar modules in the industry through its manufacturing lines and the partnering companies.

WARRANTY



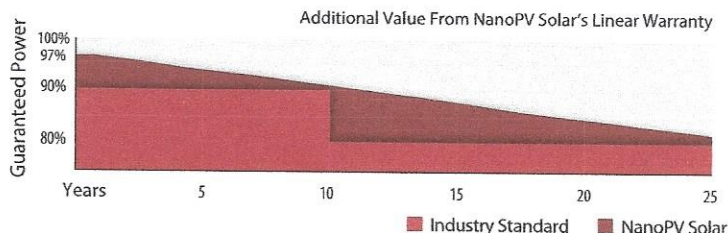
Product
Warranty



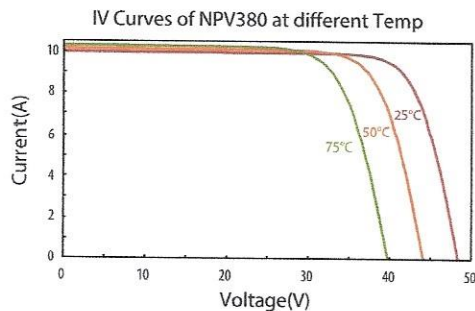
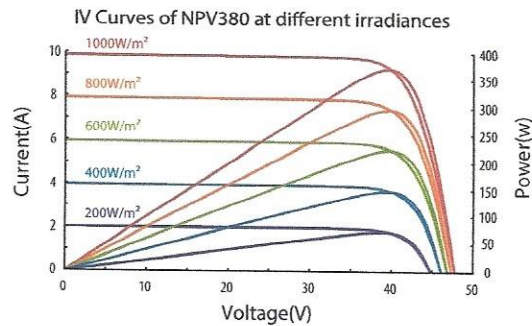
Performance
Warranty

Insured by

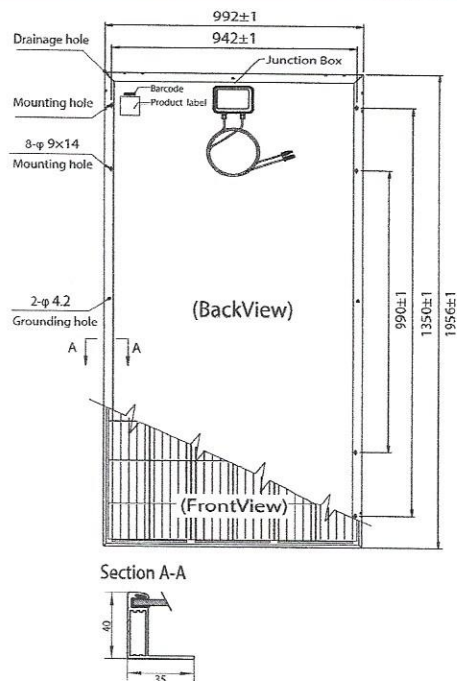
Munich RE



IV CURVES



DIMENSION



Remarks

ELECTRICAL DATA *STC

TYPE (Tolerance: 0 - +5W)	NPV 365	NPV 370	NPV 375	NPV 380
Maximum Power Pmax (W)	365	370	375	380
Maximum Power Voltage Vmp (V)	39.7	40.0	40.2	40.5
Maximum Power Current Imp (A)	9.20	9.25	9.33	9.39
Open Circuit Voltage Voc (V)	47.5	47.8	48.1	48.4
Short Circuit Current Isc (A)	9.81	9.87	9.93	9.99
Module Efficiency (%)	18.8%	19.1%	19.3%	19.6%

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

ELECTRICAL DATA *NMOT

Maximum Power Pmax (W)	271.93	275.63	279.35	283.11
Maximum Power Voltage Vmp (V)	36.5	36.8	37.0	37.3
Maximum Power Current Imp (A)	7.45	7.49	7.55	7.59
Open Circuit Voltage Voc (V)	44.5	44.8	45.0	45.3
Short Circuit Current Isc (A)	7.89	7.93	7.99	8.04

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

TEMPERATURE RATINGS

Temperature Coefficient of Isc (αIsc)	+0.059%/°C
Temperature Coefficient of Voc (βVoc)	-0.30%/°C
Temperature Coefficient of Pmax (γPmp)	-0.39%/°C
Normal Module Operating Temperature (NMOT)	43°C±2°C

OPERATING PARAMETERS

Maximum System Voltage	1000V/DC(IEC)/1500V/DC(IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Test Load, Push/Pull	5400Pa/2400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥ 100MΩ
Voc and Isc Tolerance	±3%

MECHANICAL DATA

Solar Cell Type	Mono 156.75×156.75 mm(6 inches)
Number of Cells	72 (6×12)
Module Dimensions	1956×992×40 mm(77×39.1×1.6 inches)
Weight	22 kg(48.5 lb)
Front Cover	3.2 mm (0.13 inches), high transmission, AR coated tempered glass
Backsheet	White composite film
Frame	Silver, anodized aluminium alloy
J-Box	≥IP67
Cable	4.0 mm ² solar cable, 1000 mm(39.4 inches)/customizable
Number of diodes	3
Connector	MC4 EVO2 compatible

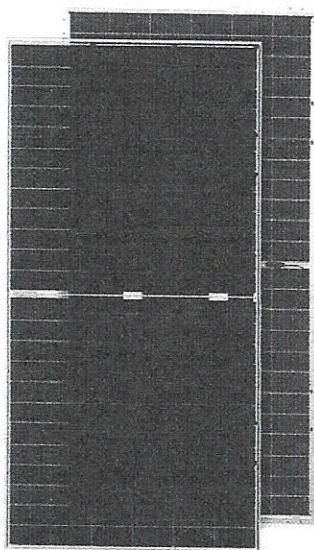
PACKAGING CONFIGURATION

Module per pallet	27 pieces
Module per 40'HQ container	24 pallets, 648 pieces

NPV-BFC 385-400W

Dual-glass Monocrystalline Solar Module

144 Cells / MBB / Bifacial Mono PERC / 1500V DC / 19.5% Maximum Efficiency



KEY FEATURES

Ultra-high power output

MBB mono PERC cell technology, maximum power output 400W
Half-cut cell layout, lower R_s loss and thermal coefficients
Bifacial cell, additional 5%-30% more yield



Ultra-high reliability

Dual-glass design with POE encapsulant, no PID risk
100% EL double inspection, stringent internal quality control



Excellent low light performance

Excellent low light performance on cloudy days
mornings and evenings



Certified to withstand the most challenging environment

2400 Pa wind load • 5400 Pa snow load • 25 mm hail stones at 82 km/h
salt mist, ammonia corrosion and sand blowing testing



High system voltage Compatible

Maximum 1500V DC system voltage saves total system cost



High fire class

Fire class A certified, minimize the fire risk of the system



QUALIFICATIONS & CERTIFICATES

- IEC 61215, IEC 61730, UL 1703, IEC 61215, IEC 61730
- ISO 9001: 2008: ISO Quality Management System
- ISO 14001: 2004: ISO Environment Management System
- OHSAS 18001: 2007: Occupational Health and Safety

NanoPV

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WARRANTY

12
years

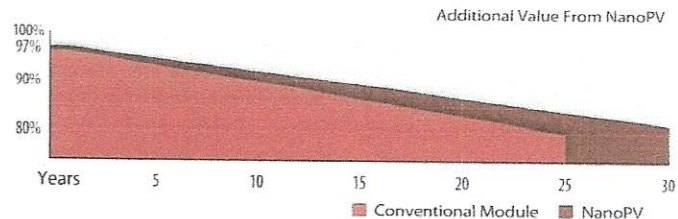
Product
Warranty

30
years

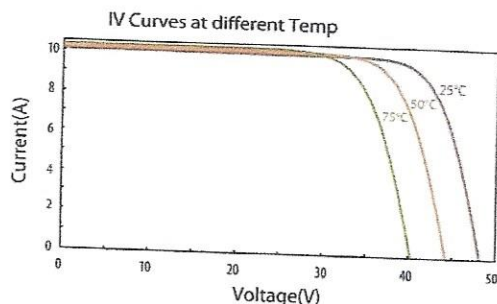
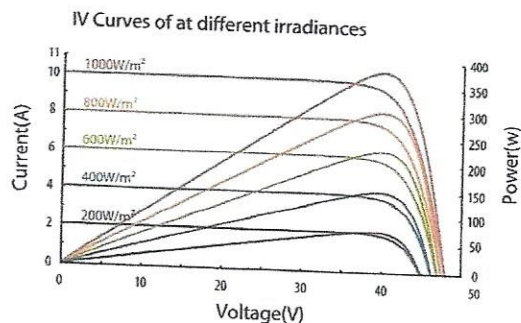
Performance
Warranty

Insured by

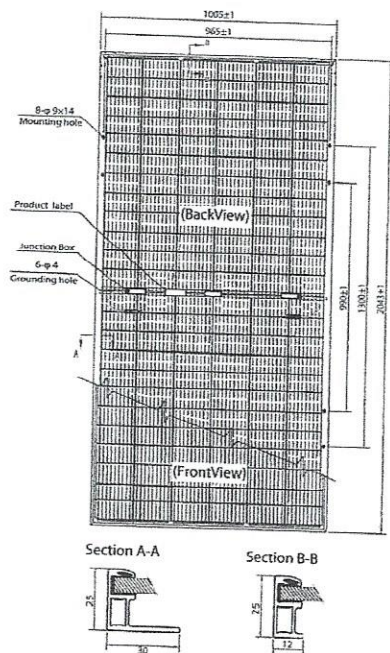
Munich RE



IV CURVES



DIMENSION



Remarks

ELECTRICAL DATA

TYPE (Tolerance: 0 - +5W)	NPV385		NPV390		NPV395		NPV400	
Test Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power Pmax (W)	385	284.90	390	289.08	395	293.28	400	297.52
Maximum Power Voltage Vmp (V)	40.2	37.0	40.5	37.3	40.7	37.6	41.0	37.9
Maximum Power Current Imp (A)	9.58	7.70	9.64	7.75	9.7	7.80	9.8	7.85
Open Circuit Voltage Voc (V)	48.2	45.0	48.4	45.2	48.6	45.4	48.8	45.7
Short Circuit Current Isc (A)	10.09	8.04	10.16	8.10	10.23	8.16	10.31	8.22
Module Efficiency (%)	18.8%		19.0%		19.2%		19.5%	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5
NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

REAR SIDE POWER GAIN

Power Gain	5%	10%	15%	20%	25%	30%
Maximum Power - Pmax (W)	422	440	460	380	500	520
Open Circuit Voltage - Voc (V)	48.80	48.80	48.80	48.90	48.90	48.90
Short Circuit Current - Isc (A)	10.94	11.38	11.87	12.33	12.82	13.30
Maximum Power Voltage - Vmp (V)	41.00	41.00	41.00	41.10	41.10	41.10
Maximum Power Current - Imp (A)	10.29	10.73	11.22	11.68	12.17	12.65

TEMPERATURE RATINGS

Temperature Coefficient of Isc (αIsc)	+0.05%/°C
Temperature Coefficient of Voc (βVoc)	-0.30%/°C
Temperature Coefficient of Pmax (γPmp)	-0.37%/°C
Normal Module Operating Temperature (NMOT)	41°C±2°C

MAXIMUM RATINGS

Maximum System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Test Load, Push/Pull	5400Pa/2400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥ 100MΩ

MECHANICAL DATA

Solar Cell Type	Mono 79.375×158.75 mm(3.13×6.25 inches)
Number of Cells	144 [2 x (12 x 6)]
Module Dimensions	2043×1005×25 mm(80.4×39.6×1.0 inches)
Weight	25.5 kg(56.2 lb)
Front Cover	2.0 mm (0.08 inches), high transmission, AR coated tempered glass
Back Cover	2.0 mm (0.08 inches), high transmission, AR coated tempered glass
Frame	Silver, anodized aluminium alloy
J-Box	IP68 Rated
Cable	4.0 mm ² solar cable, 300 mm(11.8 inches)
Number of diodes	3
Connector	MC4 or MC4 compatible

PACKAGING CONFIGURATION

Module per pallet	32 pieces
Module per 40'HQ container	22 pallets, 704 pieces