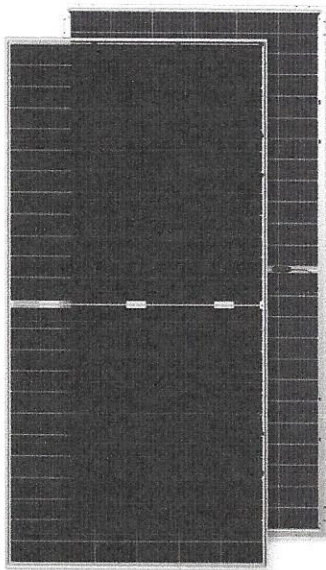


NPV-BFC 385-400W

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 Rs 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 Mangement System
- OHSAS 18001: 2007: Occupational Health and Safety

NanoPV

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



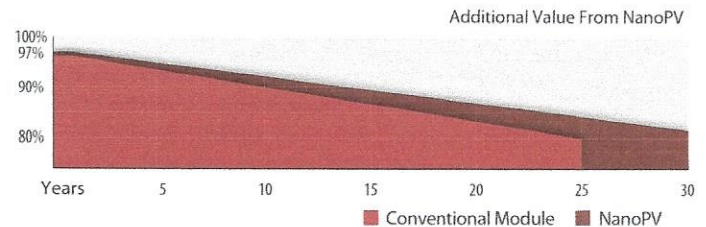
12 years Product Warranty



30 years Performance Warranty

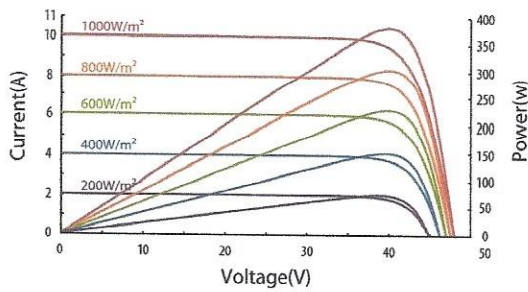
Insured by

Munich RE 

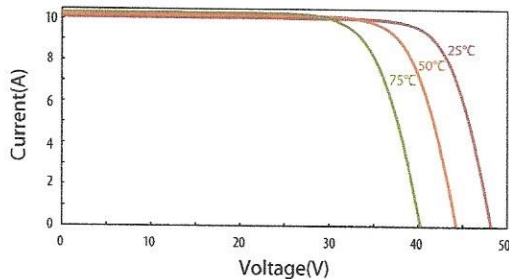


IV CURVES

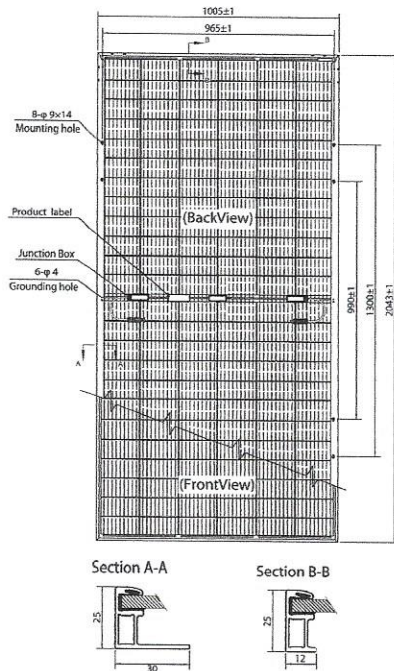
IV Curves of at different irradiances



IV Curves at different Temp



DIMENSION



Remarks

ELECTRICAL DATA

TYPE (Tolerance: 0 - +5W)	NPV385		NPV390		NPV395		NPV400	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
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 (alsc)	+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 CONFIGRATION

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