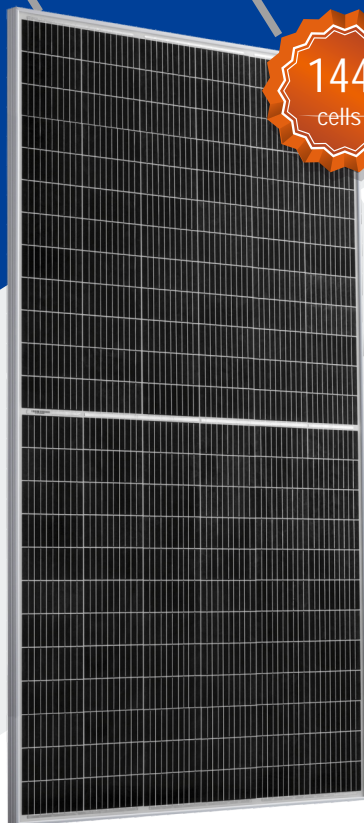


NanoPV

HIGH PERFORMANCE
MONOCRYSTALLINE PERC MODULE



144
cells

NPV MP 144-6-410W

144 CELL Mono PERC Module	395-415Wp Power Output Range
1500VDC Maximum System Voltage	20.7% Maximum Efficiency

KEY SALIENT FEATURES

-  Global, bankable brand, with independently certified State-of-the-art automatd manufacturing
-  Industry leading lowest thermal co-efficient of power
-  Industry leading 12 years product warranty
-  Excellent low irradiance performance
-  Excellent PID resistance
-  Positive tight power tolerance
-  Dual stage 100% EL Inspection warranting defect-free product
-  Module Imp binning radically reduces string mismatch losses
-  Warranted reliability and stringent quality assurances well beyond certified requirements
-  Certified to withstand severe environmental conditions
 - ◆ Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
 - ◆ Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
 - ◆ Excellent mechanical load 2400Pa & snow load 5400Pa resistance



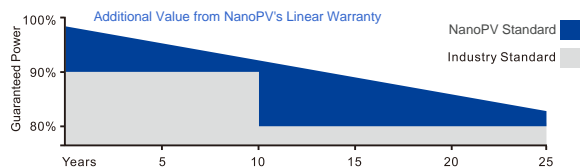
NanoPV Solar Inc.

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.

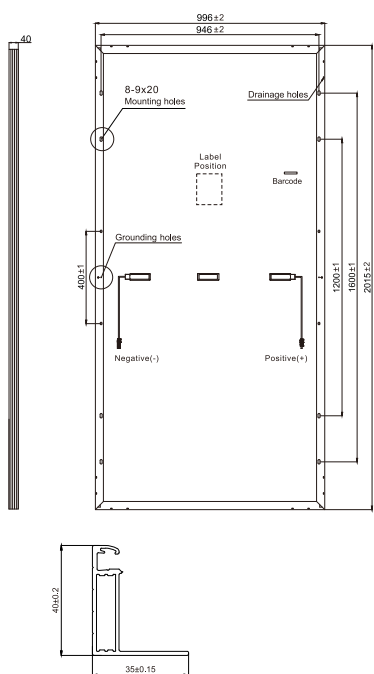
NanoPV Solar Inc., 103 Carnegie Centre Dr., Princeton, New Jersey- 08540, USA
Tel: +1 609 851 3666. www. nano-pv.com. Mail: info@nano-pv.com

LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	NPV M144-395	NPV M144-400	NPV M144-405	NPV M144-410	NPV M144-415
Rated Power in Watts-Pmax(Wp)	395	400	405	410	415
Open Circuit Voltage-Voc(V)	48.45	48.60	48.75	48.90	49.00
Short Circuit Current-Isc(A)	10.40	10.50	10.60	10.70	10.80
Maximum Power Voltage-Vmpp(V)	40.35	40.45	40.55	40.65	40.70
Maximum Power Current-Impp(A)	9.80	9.90	10.00	10.10	10.20
Module Efficiency (%) *	19.7	19.9	20.2	20.4	20.7

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

* Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)

Model Number	NPV M144-395	NPV M144-400	NPV M144-405	NPV M144-410	NPV M144-415
Maximum Power-Pmax (Wp)	295.6	299.3	303.1	306.9	309.2
Open Circuit Voltage-Voc (V)	44.60	44.70	44.90	44.99	45.63
Short Circuit Current-Isc (A)	8.53	8.61	8.69	8.77	8.80
Maximum Power Voltage-Vmpp (V)	37.00	37.05	37.14	37.24	37.30
Maximum Power Current-Impp (A)	8.00	8.08	8.16	8.24	8.29

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

MECHANICAL DATA

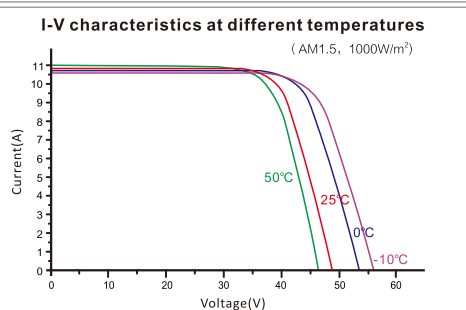
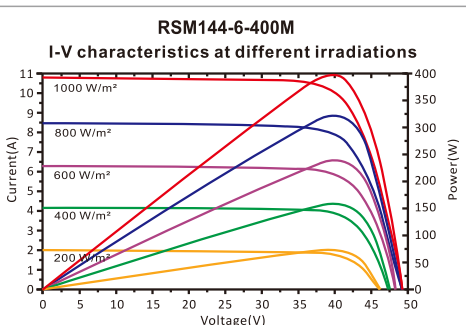
Solar cells	Monocrystalline, 9BB
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2015×996×40mm
Weight	23kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)270mm, Negative(-)270mm
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45°C±2°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.37%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

PACKAGING CONFIGURATION

	40ft	20ft
Number of modules per container	594	270
Number of modules per pallet	27	27
Number of pallets per container	22	10
Packaging box dimensions (LxWxH) in mm	2040×1130×1130	2040×1130×1130
Box gross weight[kg]	670	670



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