



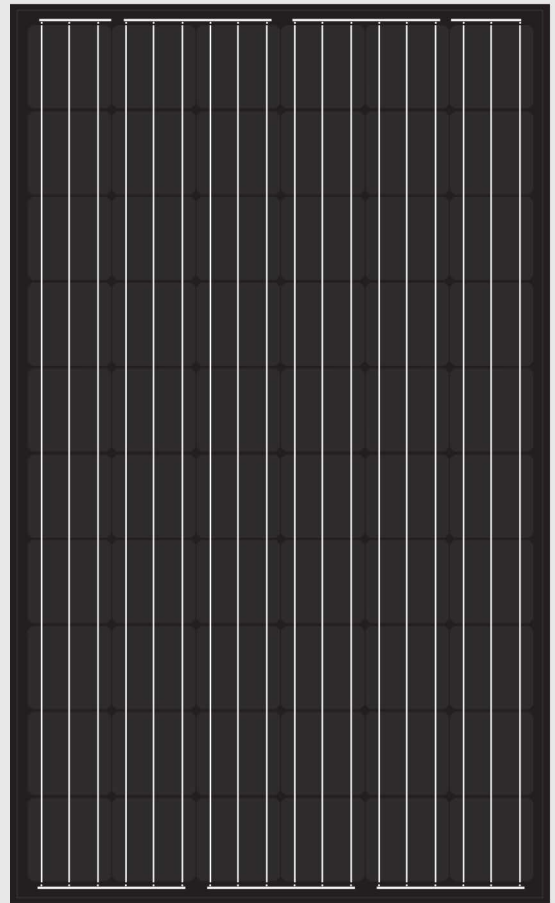
NEXT ENERGY
ALLIANCE



Data Sheet

Mono Module 300W - 320W

Black Monocrystalline
60 cells | American Made



Key Features



DNV GL enables organizations to advance the safety, sustainability, and names in the top group



Industry leading lowest thermal co-efficient of power



Excellent low irradiance performance



Excellent PID resistance



Positive tight power tolerance of +5W



Certified to withstand severe environmental conditions



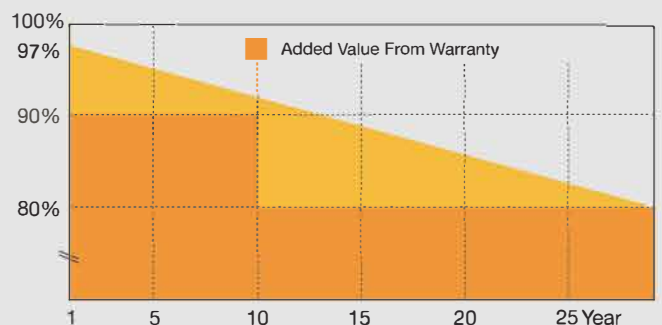
Two stage 100% EL inspection warranting defect-free products

Reliable Quality

- Positive power tolerance: 0~5W
- 100% EL double-inspection ensures modules are defects free
- Shipped upright to reduce micro-cracks in cells

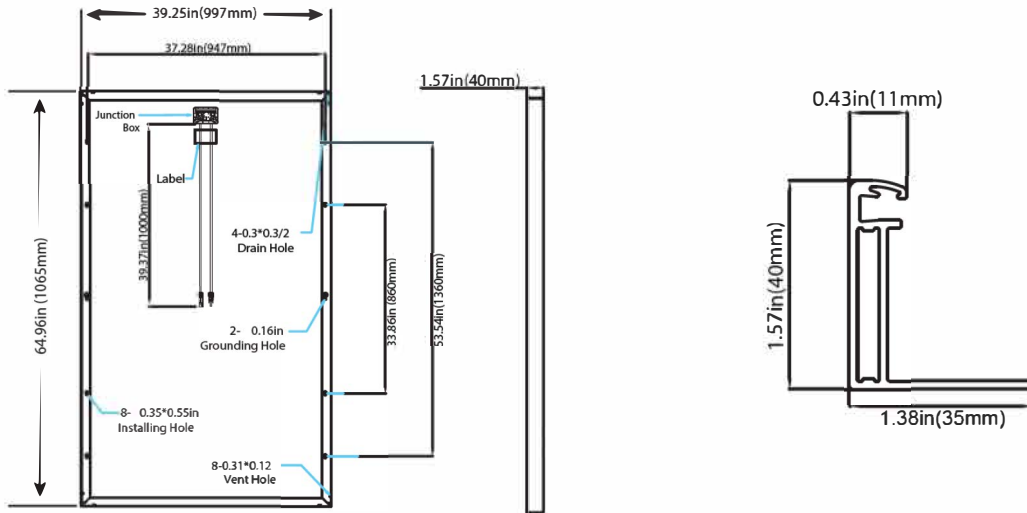
Reliable Quality

- 12-year product warranty
- 30-year linear power output warranty



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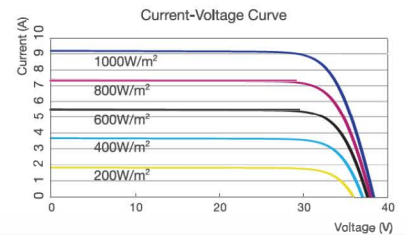
Electrical Parameters

USNEA-300M USNEA-305M USNEA-310M USNEA-315M USNEA-320M

Module	USNEA-300M	USNEA-305M	USNEA-310M	USNEA-315M	USNEA-320M
Maximum Power (Pmax)	300W	305W	310W	315W	320W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	18.24%	18.54%	18.84%	19.15%	19.45%
Maximum Power Current (Imp)	9.33 A	9.44 A	9.56 A	967 A	9.78 A
Maximum Power Volatage (Vmp)	32.25V	32.35V	32.46V	32.58V	32.72V
Short Circuit Current (Isc)	9.78 A	9.89 A	10.1 A	10.21 A	10.32 A
Open Circuit Voltage (Voc)	39.82V	39.98V	40.1V	40.22V	40.34V

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperatures 25°C)

IV-Curve



Mechanical Characteristics

Cell Type	Mono crystalline 6 inch, 60 (6x10) pcs in series
Glass	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP65/IP67 Rates, with Bypass Diodes
Dimension	*64.96x 39.25 x 1.57 in. (1650 x 997 x 40mm)
Output Cable	4mm (EU)/12AWG(US), 39.37in (1000mm)
Weight	42.8lbs (19.4kg)
Installation Hole Location	See Drawing Above

Characteristics

Temperature Coefficient of Voc	0.33%/°C
Temperature Coefficient of Isc	0.035%/°C
Temperature Coefficient of Pmax	-0.47%/°C
Nominal Operating Cell Temperatur (NOCT)	45±2°
Module Fire Performance	Type 2
Static Snow Load	5400 Pa / 113 psf
Static Wind Load	2400 Pa / 50 psf
Maximum System Voltage	1000 VDC

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