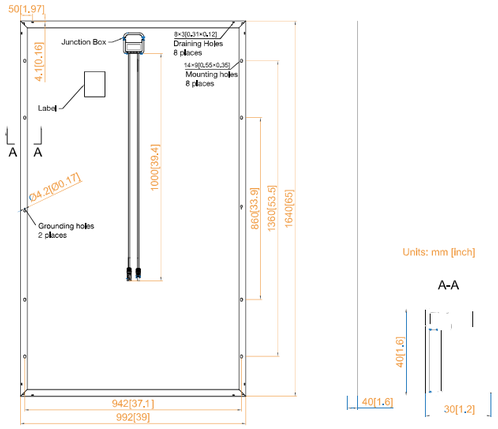
Mechanical Parameters

Cell (in)	Mono 6×6
Weight (lb)	40.1 (approx)
Dimensions (L×W×H) (in)	65×39×1.6
Cable Cross Section Size (mm^2)	4
No. of Cells and Connections	60 (6×10)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	26 Per Pallet

Engineering Drawings



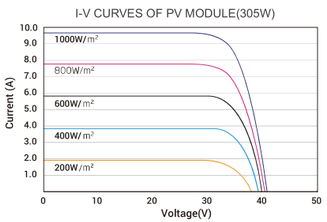
Working Conditions

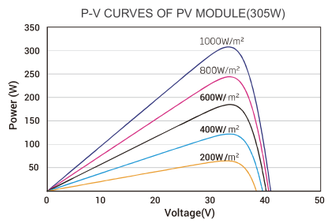
Maximum System Voltage	DC 1000V (IEC)
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	15A
Maximum Static Load, Front (e.g., snow and wind) Maximum Static Load, Back (e.g., wind)	5400Pa (112 lb/ft^2) 2400Pa (50 lb/ft^2)
NOCT	45±2℃
Application Class	Class A

Electrical Parameters

Module	NEA300M-60	NEA305M-60	NEA 310 M-60
Rated Maximum Power at STC (W)	300	305	310
Open Circuit Voltage (Voc/V)	39.8	40.0	40.2
Maximum Power Voltage (Vmp/V)	32.6	32.9	33.1
Short Circuit Current (Isc/A)	9.77	9.85	9.94
Maximum Power Current (Imp/A)	9.19	9.28	9.37
Module Efficiency [%]	18.3	18.6	18.9
Power Tolerance (W)		-0~+5W	
Temperature Coefficient of Isc (αIsc)		+0.059%/℃	
Temperature Coefficient of Voc (βVoc)		-0.330%/℃	
Temperature Coefficient of Pmax (γPmp)		-0.410%/℃	
STC		Irradiance 1000W/m^2, Cell Temperature 25℃, Air Mass 1.5	

I-V Curve



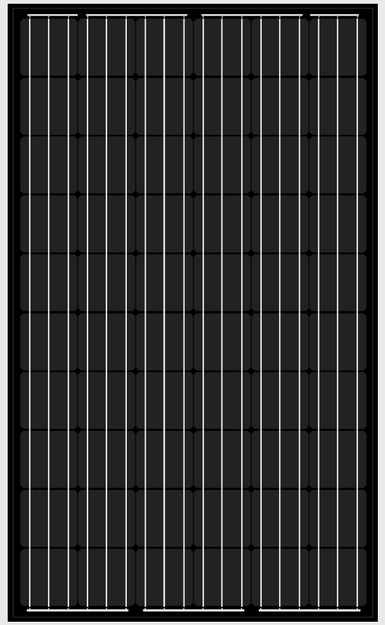


NEXT ENERGY ALLIANCE

Data Sheet

NEA300M-60

Black Monocrystalline 60 cells 300w-310w



CONFORMS TO UL STD.1703
CERTIFIED TO ULC/ORD STD. C1703

Key Features

- Monocrystalline modules designed for commercial and solar farm grid-tied applications
- High power output and highest conversion efficiency of **18%**
- Anti-reflective and anti-soiling surface reduces power loss from dirt and dust
- Outstanding performance in low-light irradiance environments
- Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)
- High salt and ammonia resistance certified by TÜV NORD

Reliable Quality

- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

Superior Warranty

- 10-year product warranty
- 25-year linear power output warranty