



Newpowa
BE WISE GO SOLAR

NPA160S-12I

Monocrystalline Module

32 Cell

Monocrystalline Module

160W

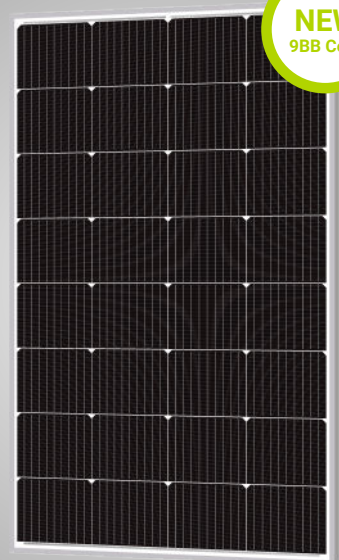
Power Output

21.3%

Maximum Efficiency

5%

Positive Tolerance



9BB Cell Technology

- 21.3% max efficiency with 9BB Multibusbar technology enabling maximum BOS savings
- Multibusbar M6 Mono Half-Cell uplifted with PERC technology to guarantee higher output power and maximum module efficiency



Extreme Weather Simulation

- Withstood 1.375" diameter hailstones falling at terminal velocity
- Rugged design with hail/snow tolerance up to 5400 Pa positive load and high wind tolerance up to 2400 Pa negative load



Efficient Sorting Process

- Identify and mitigate against damaged/color-deviating/chipped cells
- Standardized cell efficiency testing to ensure optimal PV output



Highly Reliable

- Robust encapsulation and diffusion barriers provide long term protection against PID damage
- Adaptability to temperatures below 0°F to 149°F

Product Certificate

Management Certificate

Other certificate

Positive mechanical load

Positive Power Tolerance

Warranty

IEC 61215, IEC 61730

ISO 9001: 2016

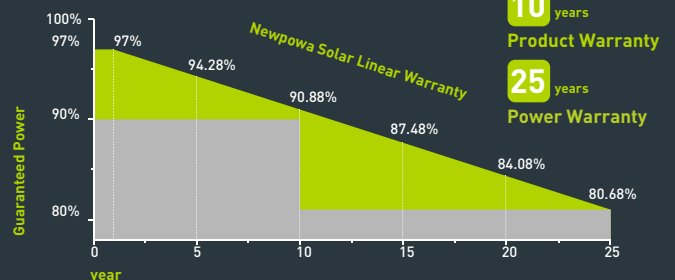
Fire Rating Class C, TÜV Rheinland

>5400Pa

0~+5W

25-year Linear Power Warranty

Performance Warranty



ELECTRICAL CHARACTERISTICS

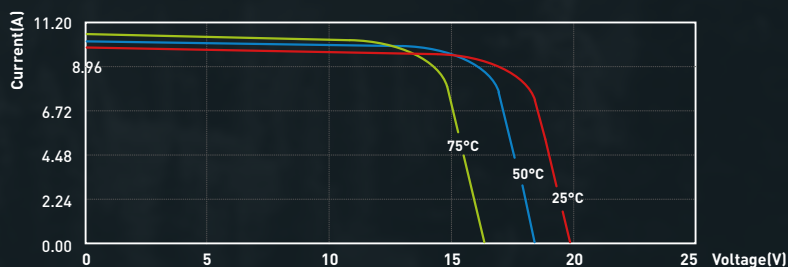
Type	NPA160S-12I
Power Output(W)	160W
Voltage MPP Vmp(V)	18.53V
Current MPP Imp(A)	8.66A
Voltage Open Circuit Voc(V)	21.37V
Short Circuit Current Isc(A)	9.14A
Temperature Coefficient Of Voc	-(80±10)mV/°C
Temperature Coefficient Of Isc	[0.065±0.015]%/°C
Temperature Coefficient Of Power	-(0.5±0.05)%/°C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C

STC: 1000W/m² Irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3

MECHANICAL CHARACTERISTICS

Cells	Monocrystalline Silicon
Solar Cells Grade	Class A High Efficiency
Module Dimension(in./mm)	46.06[1170]x27.76[705]x1.18[35]
Weight(lbs/kg)	20.29(9.20)
Packing Information(in./mm)	47.64[1210]x29.33[745]x2.56[65]/(1pc/ctn)

I-V CURVES (Irradiance: AM1.5, 1km/m²)



*Specifications subject to technical changes and tests.
NEWPOWA reserves the right of final interpretation.

