



**Newpowa**  
BE WISE GO SOLAR

# NPA180S-12H

## Monocrystalline Module

60 Cell

Monocrystalline Module

180W

Power Output

20.7%

Maximum Efficiency

5%

Positive Tolerance



### High Efficiency

Module Efficiency improved through advanced cell technology and manufacturing capabilities



### High Performance Cost Ratio

Provide industry advanced cell technology and qualified materials at affordable prices



### Efficient Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage



### Highly Reliable

Solid encapsulation and diffusion barriers provides long term protection against PID damage, built to handle 5,400 Pa of front load, rear side 2,400Pa, Hailstone Test at 1.375 inches in diameter falling at terminal velocity through the sky.

Product Certificate

Management Certificate

Other certificate

Positive mechanical load

Positive Power Tolerance

Warranty

IEC 61215, IEC 61730

ISO 9001: 2016

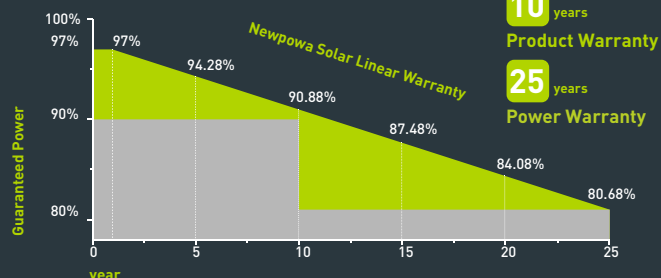
Fire Rating Class C, TÜV Rheinland

>5400Pa

0~+5W

25-year Linear Power Warranty

### Performance Warranty



CE



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## ELECTRICAL CHARACTERISTICS

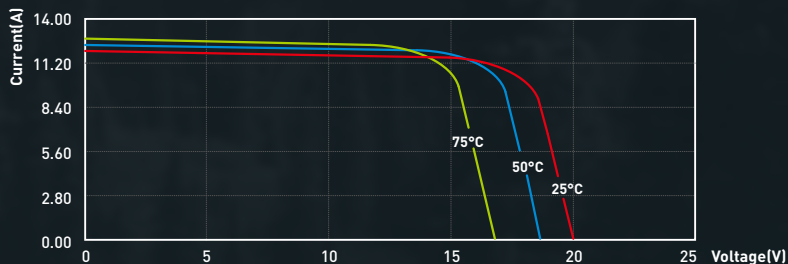
Type	NPA180S-12H
Power Output(W)	180W
Voltage MPP Vmp(V)	16.77V
Current MPP Imp(A)	11.20A
Voltage Open Circuit Voc(V)	19.84V
Short Circuit Current Isc(A)	11.75A
Temperature Coefficient Of Voc	$-(80 \pm 10)\text{mV}/^{\circ}\text{C}$
Temperature Coefficient Of Isc	$(0.065 \pm 0.015)\%/^{\circ}\text{C}$
Temperature Coefficient Of Power	$-(0.5 \pm 0.05)\%/^{\circ}\text{C}$
NOCT (Air 20°C; Sun 0.8kW/m <sup>2</sup> wind 1m/s)	47±2°C

STC: 1000W/m<sup>2</sup> Irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3

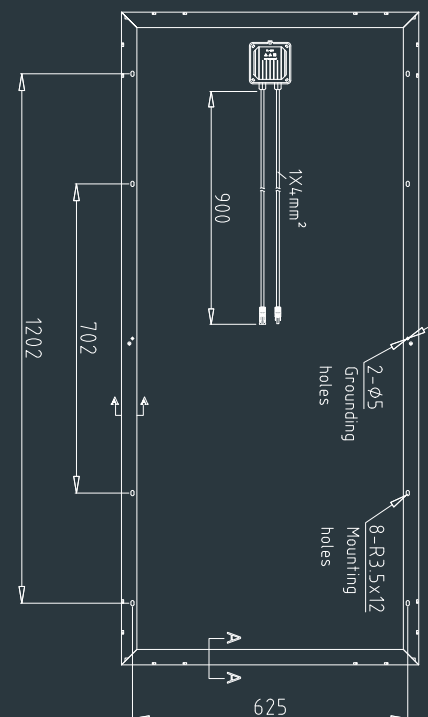
## MECHANICAL CHARACTERISTICS

Cells	Monocrystalline Silicon
Solar Cells Grade	Class A High Efficiency
Module Dimensio[in./mm]	58.35[1482]x26.57[675]x1.38[35]
Weight[lbs/kg]	24.42[11.08]
Packing Information[in./mm]	60.43[1535]x28.62[727]x2.48[63]/(1pc/ctn)

## I-V CURVES (Irradiance: AM1.5, 1km/m<sup>2</sup>)



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



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