

# Nanosolar UltraLight



## Installs like roofing

Uses common roofing practices for mounting



## Reduced parts & components

No racking required  
Simplified wiring



## Low weight

Less than 1lb/sqft with no point loading



## Low array mismatch losses

Reduced impact from soiling, clouds, thermal mismatch, etc.



## High wind resistance

Aerodynamic application for maximum wind resistance



## Diode per cell protection

Less loss from cell shading



## Reduced abrasion

No ballast required  
Resistant to seismic events



## Low voltage design

More modules per string for higher string wattage

## Performance

Rated Power	170 - 200W	
Tolerance <sup>1</sup>	Pmpp	-5% to +5%
	Voc, Isc, Vmpp, Imp	-10% to +10%

## Mechanical Characteristics

Dimensions	Length: 1.960 m (77.2 in) Width: 0.915 m (36.0 in) Height: 0.004 m (0.2 in) w/ Jbox: 0.011 m (0.4 in)
Weight	4.6kg (10.1 lb); 2.55kg/m <sup>2</sup> (0.52 lb/ft <sup>2</sup> )
Solar Cells	70 CIGS cells in series 135mm x 164mm
Output Cables	80mm cable (positive) 300mm cable (negative)
Output Terminal	MC4 compatible
Operating Module Temperature	-40 to +85C
Series Fuse Rating	PENDING (15A)

## Electrical Characteristics at STC<sup>2</sup>

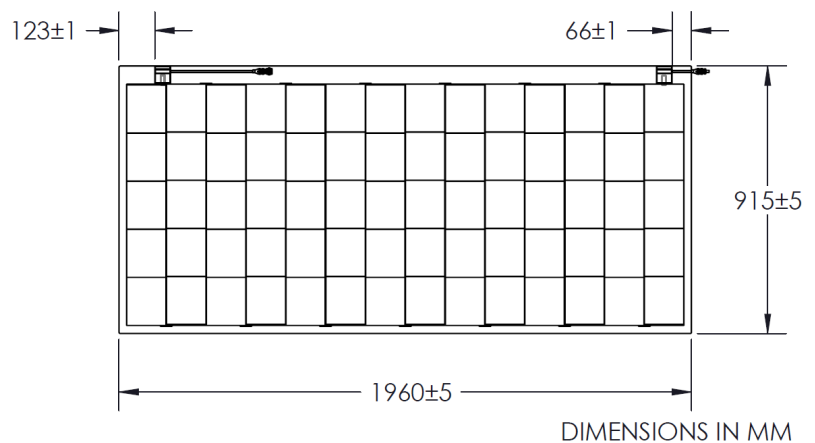
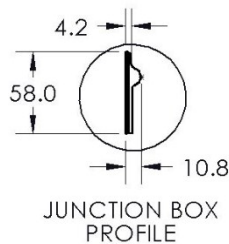
Module Type	NS UltraLight			
Rated Power	170	180	190	200
Vmpp (V)	34.5	32.3	35.6	36.1
Imp (A)	5.59	5.60	5.61	5.62
Voc (V)	41.3	41.9	42.6	43.2
Isc (A)	6.70	6.71	6.72	6.73
Temp Coeff Pmax	-0.40 %/K			
Temp Coeff Voc	-0.30 %/K			
Temp Coeff Isc	+0.01 %/K			
Max Sys Voltage	600V UL / 1000V IEC			

## Quality and Safety

IEC 61646 & 61730 - PENDING

UL 1703, Fire Resistance - PENDING

Protection Class II



1 - Exclude tester tolerance of +/-3%.

2 - Standard Test Conditions (STC): 1000 W/m<sup>2</sup>, 25°C, AM1.5G.

All specifications are subject to change without further notification.

