

# NCS MODULE

## 156 PERC Series Monocrystalline

- NCS-6BM 305W
- NCS-6BM 300W
- NCS-6BM 295W
- NCS-6BM 290W

### Features



**Quality**  
Product certification to IEC 61215  
Protection class II / IEC 61730-II( FIRE Testing)  
Hot-Spot Protect,PID Free



**Product features**  
Performance sorting  $-0/+5$  Wp  
Temperature coefficient  $P_{mp}$ -0.43% K



**Value chain**  
Crystal-Wafer-Cell-Module



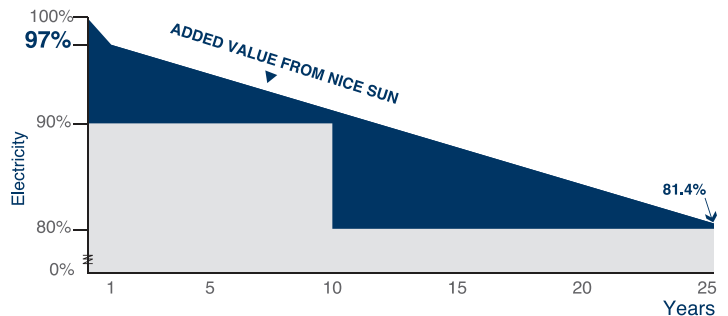
**Components**  
3.2mm frontglass, 3 Diode  
Nice Sun Cell NCS-156M5BB-M2 Cell



**Warranty**  
10 years product material and craftwork  
25 years performance guarantee  
(90% up to 10 years, 80% up to 25 years)



**Power classes**  
290-305wp



- Linear performance warranty from Nice Sun
- Standard tiered warranty

### Benefits

#### PERC Cells:

- ▶ The mono cell with passivated backside
- ▶ >21.0 average mass production efficiency

#### More Power Per m<sup>2</sup> :

- ▶ Higher conversion efficiency more power production per unit area

#### Lower System Cost:

- ▶ Higher conversion efficiency help you save
- ▶ Transportation Cost
- ▶ Installation Cost
- ▶ BOS Cost

#### Excellent performance under low light environment

- ▶ Enhanced spectra response at longer wavelength boosts low-light performance, which can produce more than 3% additional power



## LEVO SOLAR TECHNOLOGY CO.,LTD

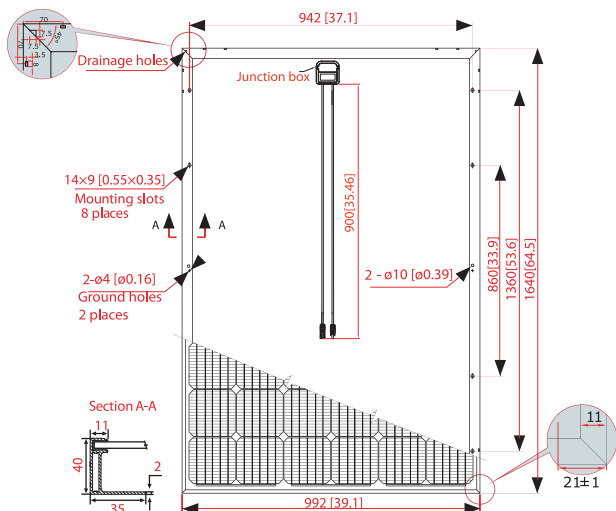
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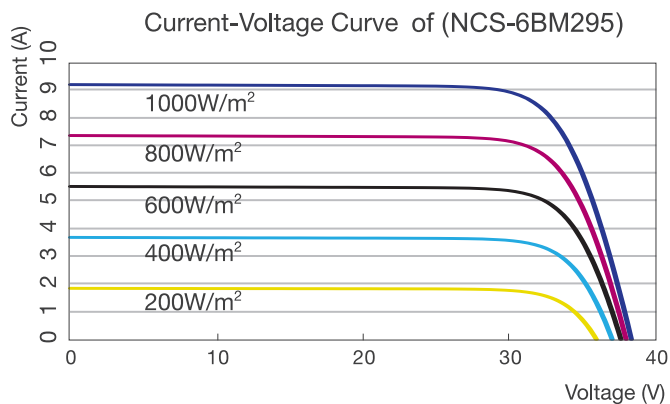
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### PHYSICAL CHARACTERISTICS

Unit:mm (inch)



### ELECTRICAL CHARACTERISTICS



### EFFICIENCY AT VARIED IRRADIATION

Irradiance	200W/m <sup>2</sup>	400W/m <sup>2</sup>	600W/m <sup>2</sup>	800W/m <sup>2</sup>	1000W/m <sup>2</sup>
Efficiency	17.7%	17.8%	17.8%	17.8%	17.7%

### ELECTRICAL SPECIFICATIONS

	NCS-6BM305	NCS-6BM300	NCS-6BM295	NCS-6BM290
Peak Power (Pmax)	305 W	300 W	295 W	290 W
Maximum Power Voltage (Vmp)	32.40 V	32.17 V	32.01 V	31.77 V
Maximum Power Current (Imp)	9.40 A	9.31 A	9.22 A	9.13 A
Open Circuit Voltage (Voc)	39.45 V	39.25 V	39.05 V	38.85 V
Short Circuit Current (Isc)	9.79 A	9.72 A	9.63 A	9.52 A
Power Tolerance	0 to +5W	0 to +5W	0 to +5W	0 to +5W
Module Efficiency	18.74 %	18.44 %	18.13 %	17.82 %

Values at standard Test Conditions STC(Air Mass AM 1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C)

### ELECTRICAL SPECIFICATIONS

	NCS-6BM305	NCS-6BM300	NCS-6BM295	NCS-6BM290
Peak Power (Pmax)	222.99W	219.33W	215.67W	212.02W
Maximum Power Voltage (Vmp)	29.01V	28.94V	28.87V	28.81V
Maximum Power Current (Imp)	7.68A	7.58A	7.47A	7.36A
Open Circuit Voltage (Voc)	36.84V	36.65V	36.46V	36.24V
Short Circuit Current (Isc)	36.93A	7.98A	7.89A	7.81A

Values at standard Test Conditions STC(Air Mass AM 1.5, Irradiance 800W/m<sup>2</sup>, Cell Temperature 20 °C, Wind speed 1 m/s)

### MECHANICAL CHARACTERISTICS

Cell type	PERC Mono Crystalline 156.75mm X 156.75mm5BB
Dimensions	1640×992×40mm / 60(6X10)pcs in series
Weight	18kg(approx)
Front Glass	3.2mm tempered glass
Junction Box	IP67
Output Cable	0.9mm wire(Ø4mm <sup>2</sup> )
Connectors	MC4
Max Load	5400Pascals ( 112 lb/ft <sup>2</sup> )

### TEMPERATURE COEFFICIENT

Temp. Coeff. of Isc (TK Isc)	0.046%/°C
Temp. Coeff. of Voc (TK Voc)	-0.309 %/°C
Temp. Coeff. of Pmax (TK Pmax)	-0.437%/°C
Nominal Operating Cell Temperature(NOCT)	45°C ± 2°C

### PACKING INFORMATION

	20FT	40FT	40HQ
Container	20FT	40FT	40HQ
Pallets per Container	12	28	28
Pieces per Container	312	728	784

### MAXIMUM RATINGS

Operating Temperature	-40°C to +85 °C
Maximum System Voltage	1000VDC(EU)/600VDC(US)
Maximum Series Fuse Rating	15A(EU)/10A(US)