

NCS MODULE

156 Series Polycrystalline

• NCS-6AP 320W • NCS-6AP 315W • NCS-6AP 310W • NCS-6AP 305W

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} -0.41% K



Value chain

Crystal-Wafer-Cell-Module



Components

3.2 mm frontglass, 3 Diode
Nice Sun Cell NCS-156P3BB



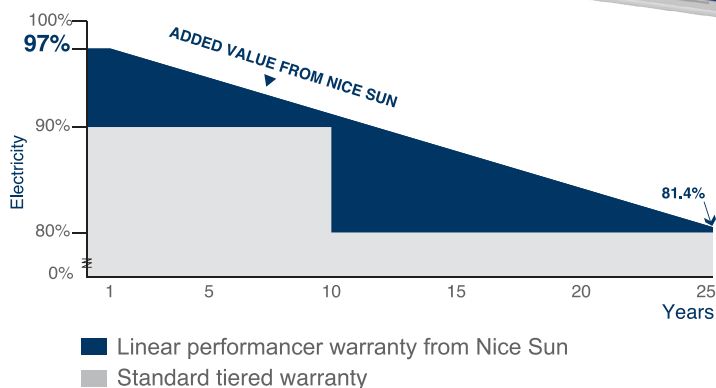
Warranty

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



Power classes

305-320wp



Benefits

- ▶ Product liability insurance
- ▶ Unique design ensures easy installation
- ▶ Excellent performance under low light environment
- ▶ High wind loads(2400Pa) mechanical loading(5400Pa)
- ▶ Anodized aluminum is mainly for improving corrosion resistance
- ▶ High module conversion efficiency, through superior manufacturing technology
- ▶ Low iron tempered glass with high transmittance



NICE SUN GROUP

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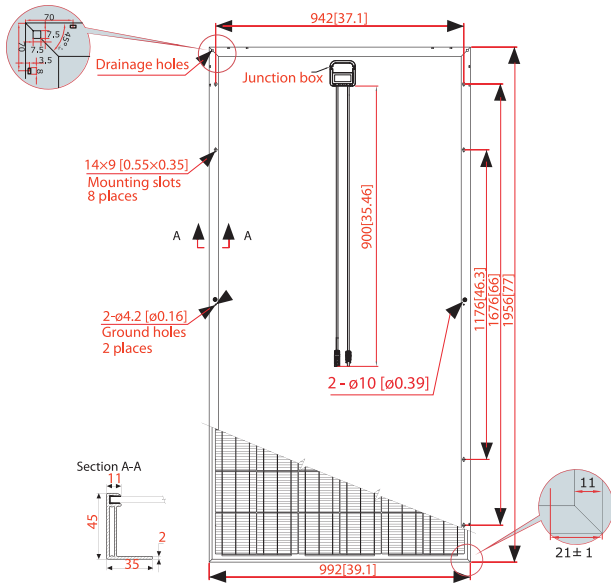
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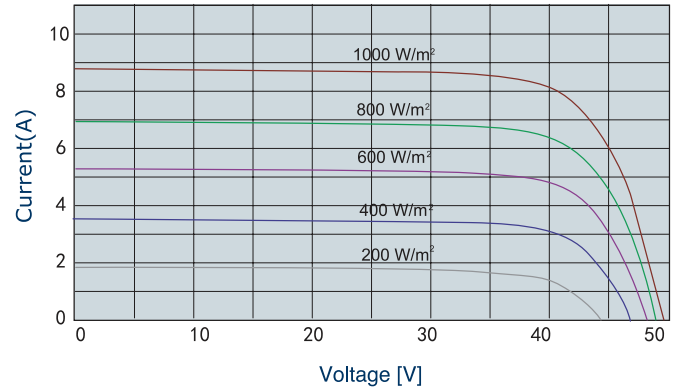
www.nicesunpv.com

PHYSICAL CHARACTERISTICS

Unit:mm (inch)



ELECTRICAL CHARACTERISTICS



EFFICIENCY AT VARIED IRRADIATION

Irradiance	200W/m ²	400W/m ²	600W/m ²	800W/m ²	1000W/m ²
Efficiency	15.80%	16.00%	16.00%	16.00%	15.90%

ELECTRICAL SPECIFICATIONS

	NCS-6AP320	NCS-6AP315	NCS-6AP310	NCS-6AP305
Peak Power (Pmax)	320 W	315 W	310 W	305 W
Maximum Power Voltage (Vmp)	37.56 V	37.28 V	37.00 V	36.71 V
Maximum Power Current (Imp)	8.52 A	8.45 A	8.38 A	8.31 A
Open Circuit Voltage (Voc)	45.82 V	45.60 V	45.45 V	45.35 V
Short Circuit Current (Isc)	9.03 A	8.91 A	8.85 A	8.79 A
Power Tolerance	0 to +5W	0 to +5W	0 to +5W	0 to +5W
Module Efficiency	16.49 %	16.23 %	15.98 %	15.72 %

Values at standard Test Conditions STC(Air Mass AM 1.5, Irradiance 1000W/m², Cell Temperature 25°C)

ELECTRICAL SPECIFICATIONS

	NCS-6AP 320	NCS-6AP 315	NCS-6AP 310	NCS-6AP 305
Peak Power (Pmax)	232.32W	228.69W	225.06W	221.43W
Maximum Power Voltage (Vmp)	34.28V	34.08V	34.05V	33.91V
Maximum Power Current (Imp)	6.78A	6.71A	6.61A	6.53A
Open Circuit Voltage (Voc)	42.78V	42.63V	42.58V	42.47V
Short Circuit Current (Isc)	7.16A	7.06A	6.99A	6.93A

Values at standard Test Conditions STC(Air Mass AM 1.5, Irradiance 800W/m², Cell Temperature 20 °C, Wind speed 1m/s)

MECHANICAL CHARACTERISTICS

Cell type	Mono Crystalline 156x156mm, 72(6x12)pcs in series
Dimensions	1956×992×45mm
Weight	22.5kg(approx)
Front Glass	3.2mm tempered glass
Junction Box	IP67
Output Cable	0.9mm wire(Ø4mm ²)
Connectors	MC4
Max Load	5400Pascals (112 lb/ft ²)

TEMPERATURE COEFFICIENT

Temp. Coeff. of Isc (TK Isc)	0.058%/°C
Temp. Coeff. of Voc (TK Voc)	-0.330 %/°C
Temp. Coeff. of Pmax (TK Pmax)	-0.410%/°C
Normal Operating Cell Temperature(NOCT)	45°C ± 2°C

PACKING INFORMATION

	20FT	40FT	40HQ
Container	20FT	40FT	40HQ
Pallets per Container	10	24	24
Pieces per Container	230	552	600

MAXIMUM RATINGS

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