

NEOSOL STAR SAPPHIRE SERIES

NEOSOL BIFACIAL SOLAR MODULE NTPL 420W

BIFACIAL SPECIFICATIONS

Electrical Characteristics	NS-420 WP
Peak Power (WP)	420
Open Circuit Voltage (VOC) (V)	44.5
Short Circuit Current (Isc) (A)	11.64
Voltage at maximum Power (Vmp) (A)	38.21
Current at maximum power (Imp) (A)	11.08
Power Tolerance	(-0. + 10W)
Module Size L x W x H x (mm)	1985 x 1003 x 35

Irradiance 1000Wm², Temperature 25 °C, AM 1.5

Module Efficiency	≥20.75
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BIFACIAL OUTPUT -REAR SIDE POWER GAIN

Maximum Power (pmp)	440
Module Efficiency (STC) (5%)	21.78
Maximum Power (pmp) (483
Module Efficiency (STC) (15%)	23.84
Maximum Power (pmp)	525
Module Efficiency (STC) (25%)	25.92

TEMPERATURE CHARACTERISTICS

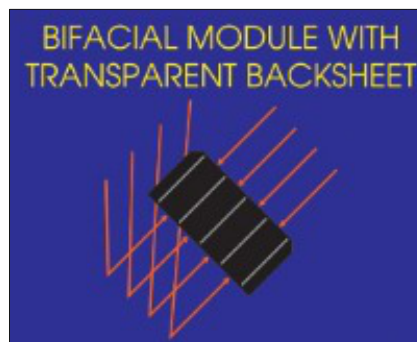
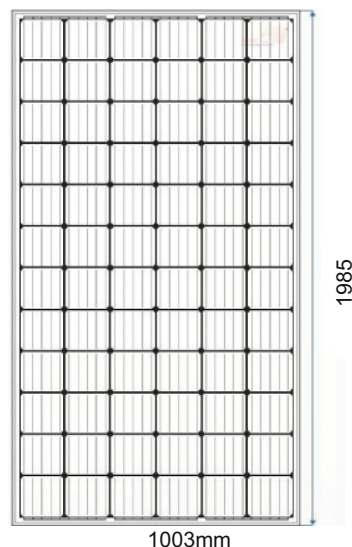
Pmax Temperature Coefficient	-0.29%/°C
Voc Temperature Coefficient	-0.23%/°C
Isc Temperature Coefficient	0.07%/°C
Operating Temperature	-40°C To +85°C
Nominal Operating Temperature	45 + 2°C
Bifacial Factor	70 +/-5%

Mechanical specification:

External Dimensions	1985 x 1003 x 35
Weight	23 kg
Solar Cells	Mono PERC Crystalline 158.75 x 158.75mm
Front Cover	3.2mm HighTransmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	3 Split , IP68 Rated
Output Cable	4.0 Sqm
Connector	MC4 Compatible
Machanical Load	5400 PA for Snow Load. 2400 PA Wind Load
Cell Encapsulate	Ethylene Vinyl Acetate (PID)
Back Cover	Composite film

PACKING CONFIGURATION

Container	20GP	40GP
Pieces per palle	35	35
Pallets per Container	10	22
Pieces per Container	250	550



KEY FEATURES:

5 Busbar Solar Cell

Higher Lifetime Power Yield

Light weight design
due to transparent backsheet

Better low-light pwerformance

Up to 25% power gain
depending on albedo
and PV system design

