

VDS-S120/NH 166 Half Cell Series

350-370w

120-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE

Product Advantages



High Power Output

Compared to 158.75mm module, the power output can increase 25W-30W



High Reliability

Passed 3*IEC standard test



Low Hot-spot Risk

1/2 current, reducing the hot spot temperature



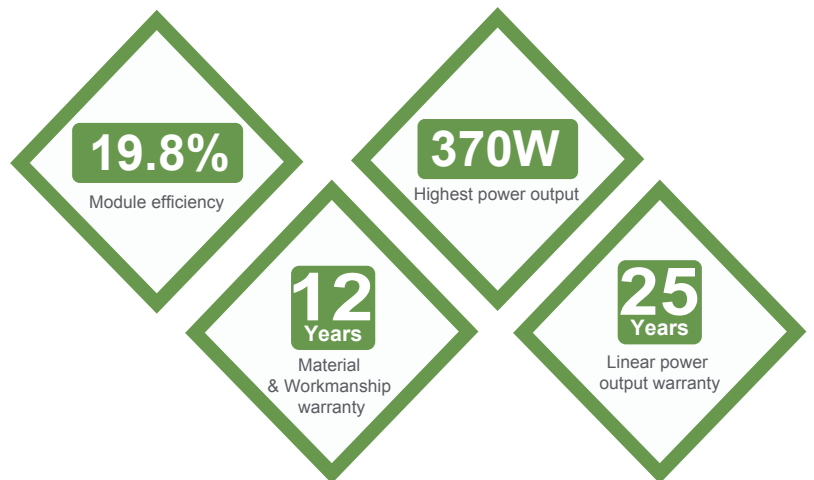
Low NMOT

As low as 43°C , improving the power generation efficiency

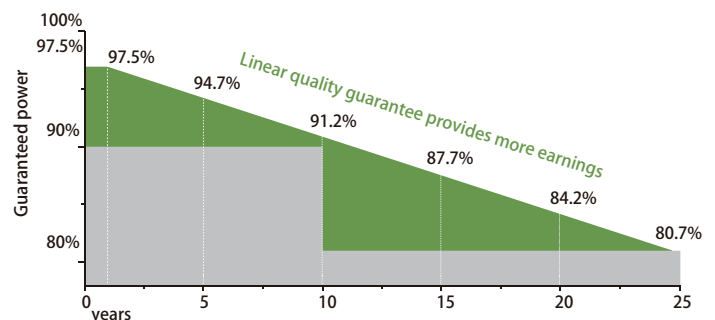


Half Cell, MBB Technology

Series-then-parallel cell connection design, more reliable soldering technology



Product Guarantee



Product Certification



VDS-S120/NH

Electrical Characteristics

STC	370	365	360	355	350
Maximum Power at STC (Pmax)	370W	365W	360W	355W	350W
Optimum Operating Voltage (Vmp)	34.3V	34.1V	33.9V	33.7V	33.5V
Optimum Operating Current (Imp)	10.79A	10.71A	10.62A	10.54A	10.46A
Open Circuit Voltage (Voc)	40.9V	40.7V	40.5V	40.3V	40.1V
Short Circuit Current (Isc)	11.49A	11.42A	11.35A	11.28A	11.21A
Module Efficiency	19.8%	19.5%	19.3%	19.0%	18.7%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	20 A				
Power Tolerance	0/+5W				

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 5%.

NMOT	370	365	360	355	350
Maximum Power at NMOT (Pmax)	278.2W	274.3W	270.7W	266.8W	263.3W
Optimum Operating Voltage (Vmp)	32.V	31.8V	31.6V	31.5V	31.3V
Optimum Operating Current (Imp)	8.69A	8.62A	8.56A	8.48A	8.42A
Open Circuit Voltage (Voc)	38.7V	38.5V	38.4V	38.2V	38.V
Short Circuit Current (Isc)	9.17A	9.1A	9.04A	8.96A	8.89A

NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

Temperature Characteristics

Nominal Module Operating Temperature(NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.304 %/°C
Temperature Coefficient of Isc	0.050 %/°C

Mechanical Characteristics

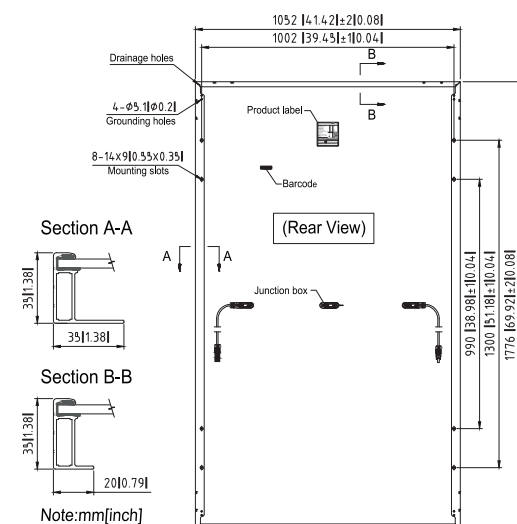
Solar Cell	Monocrystalline silicon 166 mm (9BB)
No. of Cells	120 (6 × 20)
Dimensions	1756 × 1039 × 35 mm
Weight	20.0 kgs
Front Glass	3.2 mm
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm², symmetrical lengths (-) 1200mm and (+) 1200 mm

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	30	62
Pallets per container	6	13
Pieces per container	180	806

Company Profile

The management of Vendato Solar has been active in the solar market in Europe for more than 10 years. We developed solar projects across Europe. Our references are in Germany, Spain, Italy, Bulgaria and other European countries. For the implementation of our projects, we are constantly improving the technology of PV modules we have made and carry out recurring tests. The quality control is especially important for us and we also have random tests for the PV modules in Germany. Our products have the currently valid test standards and certificates for the pv market.



Current-Voltage & Power-Voltage Curve (370S)

