



VDS-S120/M6H | 166 Half Cell Series

**355-380W**

120-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE

Artikel-Nr.: 380-3.2022-R35-C350

**20.8%**

Module Efficiency

**380W**

Highest Power Output

**12 YEARS**

Material & Workmanship Warranty

**25 YEARS**

Linear Output Warranty

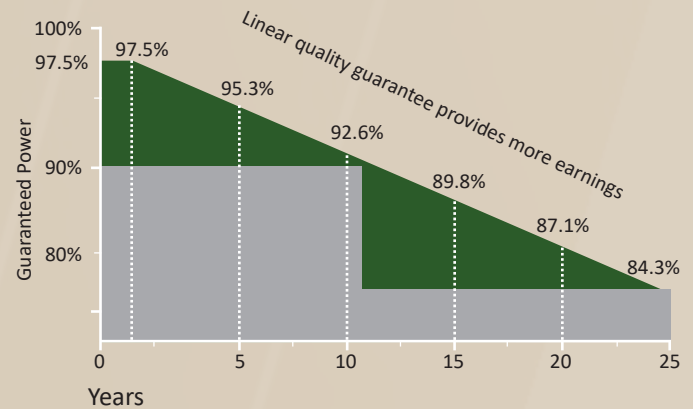
**-2.5%** First year power degradation

**-0.55%** Annual degradation

## PRODUCT ADVANTAGES

- High Power Output**  
Compared to 158.75 mm 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
- Excellent loading capability**  
2400Pa wind loads, 5400Pa snow loads, 8000Pa extra support
- 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



- Standard linear power guarantee
- VDS linear power guarantee

## Certifications of Product and Manufacturer



## ELECTRICAL CHARACTERISTICS

STC	355	360	365	370	375	380
Maximum Power at STC (Pmax)*	355W	360W	365W	370W	375W	380W
Optimum Operating Voltage (Vmp)	33.7V	33.9V	34.1V	34.3V	34.5V	34.7V
Optimum Operating Current (Imp)	10.54A	10.62A	10.71A	10.79A	10.87A	10.96A
Open Circuit Voltage (Voc)	40.3V	40.5V	40.7V	40.9V	41.1V	41.3V
Short Circuit Current (Isc)	11.28A	11.35A	11.42A	11.49A	11.56A	11.63A
Module Efficiency	19.4%	19.7%	20.0%	20.2%	20.5%	20.8%
Operating Module Temperature	-40°C to +85°C					
Maximum System Voltage	1500V DC (IEC)					
Maximum Series Fuse rating	20 A					
Power Tolerance	0~+5W					

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, AM=1.5; \*Measuring tolerance: ±3%

NMOT	355	360	365	370	375	380
Maximum Power at NMOT (Pmax)	266.8W	270.7W	274.3W	278.2W	281.8W	285.4W
Optimum Operating Voltage (Vmp)	31.5V	31.6V	31.8V	32.0V	32.2V	32.4V
Optimum Operating Current (Imp)	8.484A	8.56A	8.62A	8.69A	8.75A	8.81A
Open Circuit Voltage (Voc)	38.2V	38.4V	38.5V	38.7V	38.9V	39.1V
Short Circuit Current (Isc)	8.96A	9.04A	9.1A	9.17A	9.23A	9.29A

NMOT: Irradiance 800 W/m<sup>2</sup>, 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	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.040%/°C

## MECHANICAL CHARACTERISTICS

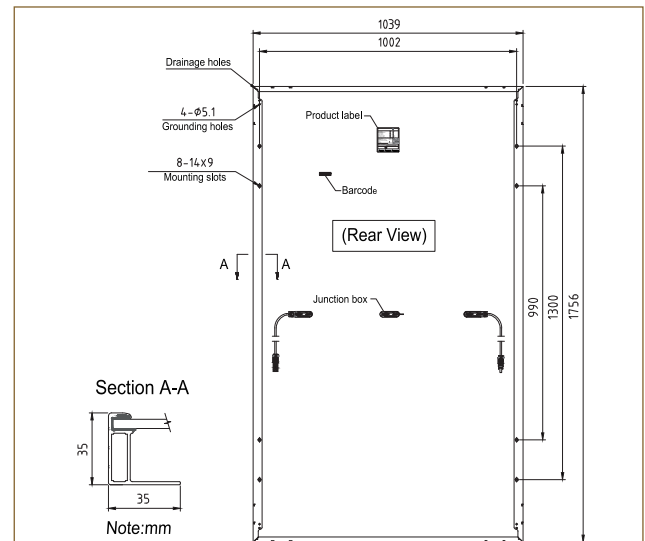
Solar Cell	Monocrystalline silicon 166 mm (9BB)
No. of Cells	120 (6 × 20)
Dimensions	1756 × 1039 × 35 mm
Weight	19.8 kgs
Front Glass	3.2 mm tempered glass with AR coating
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm <sup>2</sup> , cable length 350 mm or customized length

## PACKING CONFIGURATION

Container	20' GP	40' HC
Pieces per pallet	31	31+2
Pallets per container	6	26
Pieces per container	186	858

## COMPANY PROFILE

VDS-Power is a German-based company with strong expertise in providing Photovoltaic solution globally. Our management team has been focused in European market for more than 10 years. We have satisfied customers in Germany, Spain, Italy, Bulgarian and many European countries. Through direct access to production, we control the quality of photovoltaic modules by monitoring and documents the manufacturing processes from material procurement to final testing. With a warehouse in Rotterdam we ensures fast delivery within EU. This enables us to quickly meet the needs of different purchase quantities. We attach great importance to a reliable partnership and cooperation with our customers. We value reliability, commitment, security and transparency.



Current-Voltage & Power-Voltage Curve (370)

