VDS POWER

VDS-S120/FNH

325-345W

120-CELL HALF CUT MONOCRYSTALLINE SOLAR MOUDLE

Artikel-Nr.: 345-4.2022-C35-350

20.4%	345W	12 YEARS	25 YEARS
Module Efficiency	Highest Power Output	Material & Workmanship Warranty	Linear Power Warranty

-2.5% First year power degradation **-0.55%** Annual degradation

PRODUCT ADVANTAGES

High Efficiency
Module efficiency leading in industry, up to 20.4%

High Reliability
Passed 3*IEC standard test

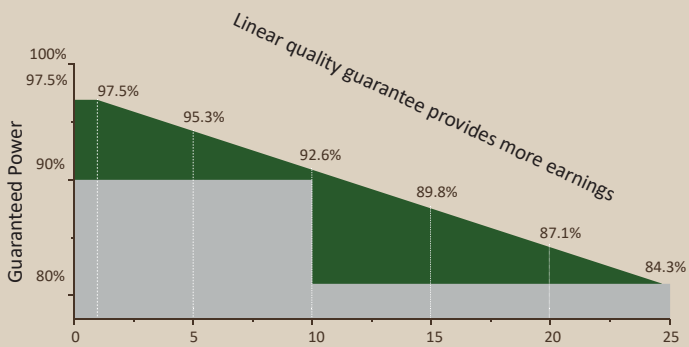
Low Hot-spot Risk
1/2 current, reducing the hot spot temperature

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, 5BB PERC Technology
More reliable soldering technology, reduce possibility of hot spot

PRODUCT GUARANTEE



Standard linear power guarantee
VDS linear power guarantee

Certifications of Product and Manufacturer

TÜV SÜD IEC ISO CE

VDS POWER GMBH
KUHWASEN 3, 72355 SCHÖMBERG, GERMANY

www.vdspower.de

VDS-S120/FNH

ELECTRICAL CHARACTERISTICS

STC	325	330	335	340	345
Maximum Power at STC (Pmax)	325W	330W	335W	340W	345W
Optimum Operating Voltage (Vmp)	34.5V	34.7V	34.9V	35.1V	35.3V
Optimum Operating Current (Imp)	9.43A	9.52A	9.60A	9.68A	9.78A
Open Circuit Voltage (Voc)	40.5V	40.7V	40.9V	41.1V	41.3V
Short Circuit Current (Isc)	10.04A	10.13A	10.21A	10.29A	10.37A
Module Efficiency	19.2%	19.5%	19.8%	20.1%	20.4%
Operating Module Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC (IEC)				
Maximum Series Fuse rating	20A				
Power Tolerance	0~+5W				

STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Measuring tolerance: ± 3%.

NMOT	325	330	335	340	345
Maximum Power at NMOT (Pmax)	244.9W	248.6W	252.1W	255.5W	259.3W
Optimum Operating Voltage (Vmp)	31.7V	31.9V	32.1V	32.3V	32.5V
Optimum Operating Current (Imp)	7.72A	7.79A	7.85A	7.92A	7.98A
Open Circuit Voltage (Voc)	37.9V	38.1V	38.3V	38.5V	38.7V
Short Circuit Current (Isc)	8.11A	8.18A	8.24A	8.31A	8.37A

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

TEMPERATURE CHARACTERISTICS

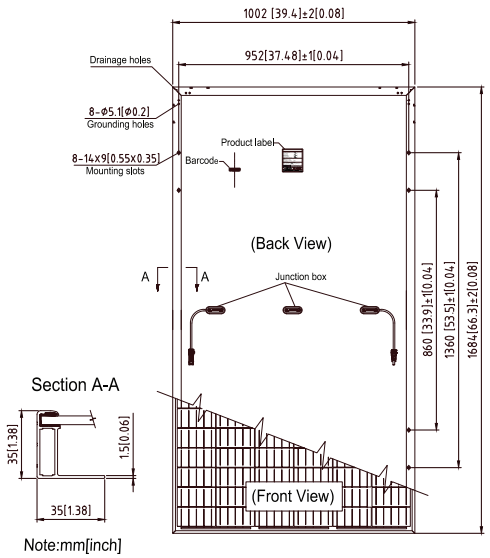
Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.040%/°C

MECHANICAL CHARACTERISTICS

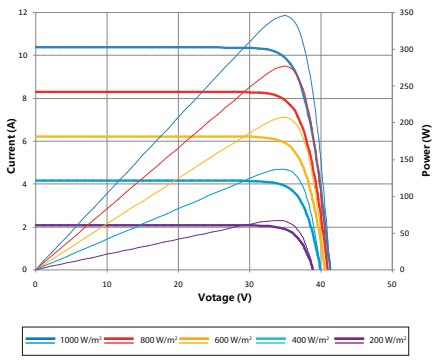
Solar Cell	Monocrystalline 158.75 mm
No. of Cells	120 (6 × 20)
Dimensions	1684 × 1002 × 35 mm
Weight	19.0 kgs
Front Glass	3.2 mm tempered glass with AR coating
Frame	Anodized Aluminium Alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm² , cable length 350 mm or customized length
Connectors	MC4 compatible

PACKING CONFIGURATION

Container	20' GP	40' HC
Pieces per pallet	31	31+3
Pallets per container	12	26
Pieces per container	372	884



Current-Voltage & Power-Voltage Curve (345)



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 other 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.