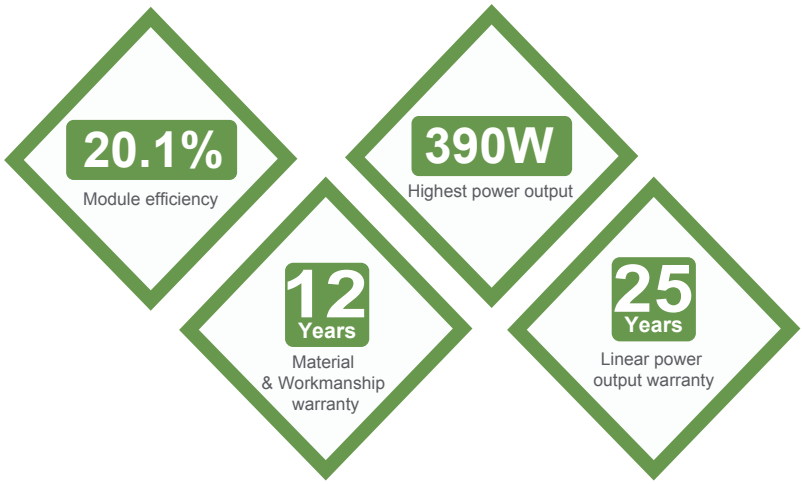
VENDATO SOLAR

VDS-S72

High Performance Series

390-370W

MONOCRYSTALLINE SOLAR MODULE 72cells



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

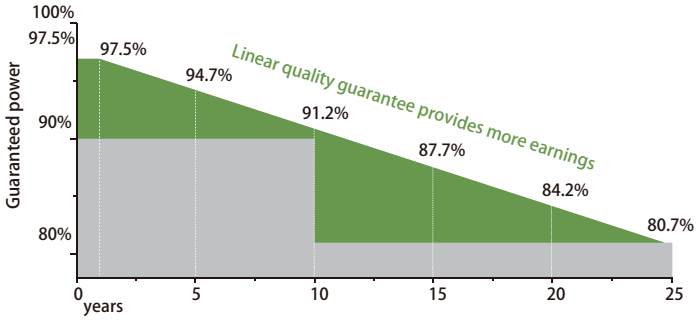
Low NMOT

As low as 43℃ , improving the power generation efficiency

Half Cell, MBB Technology

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

Product Guarantee



Product Certification

TÜV SÜD · IEC · TÜV NORD Type Tested · MCS · JET www.jet.or.jp · CQC · INMETRO · ISO · CE · J-PEC · CHUBB

Vendato Solar
Seegefelder Straße 7a
14612 Falkensee, Germany
www.vendato-solar.de

VDS-S72

Electrical Characteristics

STC	390	385	380	375	370
Maximum Power at STC (Pmax)	390 W	385 W	380 W	375 W	370 W
Optimum Operating Voltage (Vmp)	40.5 V	40.3 V	40.1 V	39.9 V	38.8 V
Optimum Operating Current (Imp)	9.63 A	9.56 A	9.48 A	9.4 A	9.54 A
Open Circuit Voltage (Voc)	48.9 V	48.7 V	48.5 V	48.3 V	47.6 V
Short Circuit Current (Isc)	10.07 A	10 A	9.93 A	9.85 A	10.06 A
Module Efficiency	20.1%	19.8%	19.5%	19.3%	19.0%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1000/1500 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	390	385	380	375	370
Maximum Power at NMOT (Pmax)	291.8 W	287.9 W	284.2 W	280.5 W	276.7 W
Optimum Operating Voltage (Vmp)	37.7 V	37.5 V	37.3 V	37.1 V	36.9 V
Optimum Operating Current (Imp)	7.74 A	7.68 A	7.62 A	7.56 A	7.5 A
Open Circuit Voltage (Voc)	45.7 V	45.5 V	45.3 V	45.1 V	44.9 V
Short Circuit Current (Isc)	8.14 A	8.08 A	8.02 A	7.96 A	7.9 A

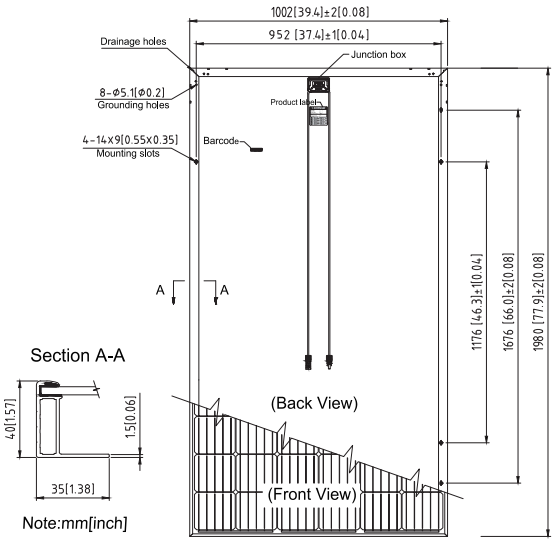
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

Temperature Characteristics

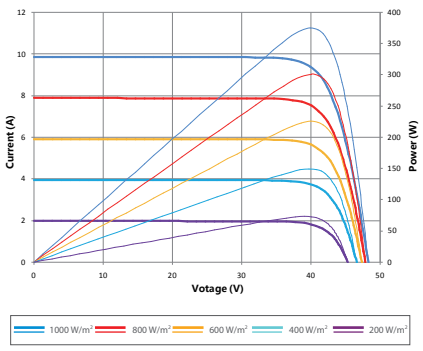
Nominal Module Operating Temperature(**NMOT**)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 158.75
No. of Cells	72 (6 × 12)
Dimensions	1980 × 1002 × 40mm
Weight	22.1 kgs
Front Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm² , symmetrical lengths (-) 1100mm and (+) 1100 mm
Connectors	MC4 compatible



Current-Voltage & Power-Voltage Curve (380)



Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	26	28
Pallets per container	10	22
Pieces per container	260	616

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.

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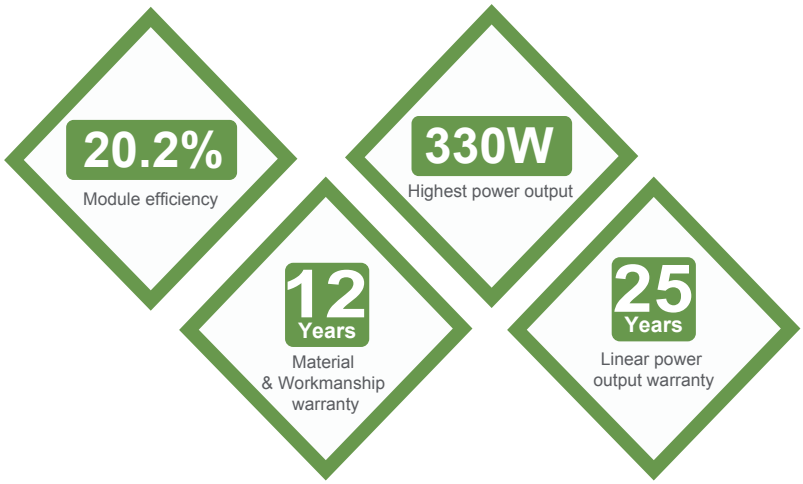
VENDATO SOLAR

VDS-S60

High Performance Series

330-310W

MONOCRYSTALLINE SOLAR MODULE 60cells



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

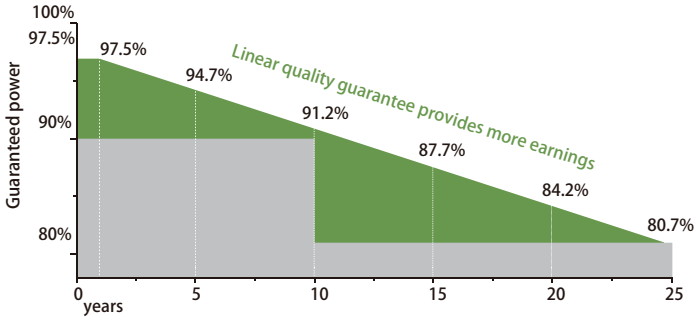
Low NMOT

As low as 43℃ , improving the power generation efficiency

Half Cell, MBB Technology

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

Product Guarantee



Product Certification

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VDS-S60

Electrical Characteristics

STC	330	325	320	315	310
Maximum Power at STC (Pmax)	330 W	325 W	320 W	315 W	310 W
Optimum Operating Voltage (Vmp)	34.2 V	33.9 V	33.9 V	33.7 V	33.4 V
Optimum Operating Current (Imp)	9.66 A	9.59 A	9.44 A	9.35 A	9.29 A
Open Circuit Voltage (Voc)	41.3 V	41.0 V	40.6 V	40.4 V	40.2 V
Short Circuit Current (Isc)	10.18 A	10.11 A	9.90 A	9.84 A	9.77 A
Module Efficiency	20.2%	19.9%	19.6%	19.2%	18.9%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1000/1500 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	330	325	320	315	310
Maximum Power at NMOT (Pmax)	248.4 W	243.7 W	239.3 W	235.8 W	232.6 W
Optimum Operating Voltage (Vmp)	32.1 V	31.7 V	31.4 V	31.1 V	30.8 V
Optimum Operating Current (Imp)	7.74 A	7.69 A	7.64 A	7.59 A	7.55 A
Open Circuit Voltage (Voc)	38.9 V	38.6 V	38.3 V	37.9 V	37.6 V
Short Circuit Current (Isc)	8.16 A	8.11 A	8.06 A	8.01 A	7.97 A

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

Temperature Characteristics

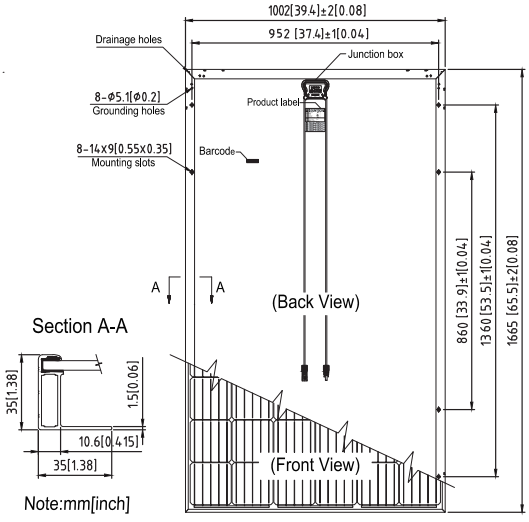
Nominal Module Operating Temperature(**NMOT**)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

Mechanical Characteristics

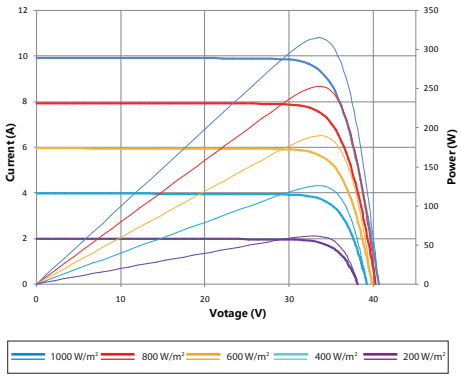
Solar Cell	Monocrystalline silicon 158.75
No. of Cells	60 (6 × 10)
Dimensions	1665 × 1002 × 35mm
Weight	18.3 kgs
Front Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm² , symmetrical lengths (-) 900mm and (+) 900 mm
Connectors	MC4 compatible

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	30	32
Pallets per container	12	28
Pieces per container	360	896



Current-Voltage & Power-Voltage Curve (320)



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