



VDS-S60

**320-300W**

MONOCRYSTALLINE SOLAR MODULE 60cells

### Product Advantages



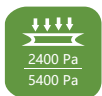
**High conversion efficiency**  
High module efficiency to guarantee power output.



**Easy Installation and Handling**  
For various applications



**Outstanding low irradiation performance**  
Excellent module efficiency even in the weak light conditions, such as morning or cloudy.



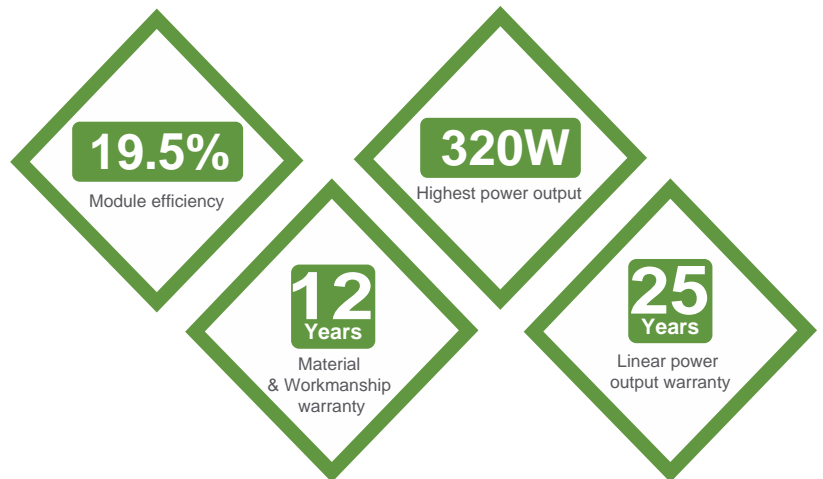
**Excellent loading capability**  
2400Pa wind loads, 5400Pa snow loads.



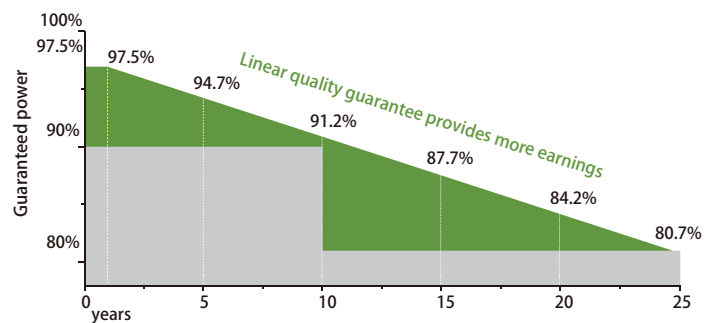
**0 ~ +5W positive tolerance**  
Detailed information in Electrical Specifications



**Durability against extreme environmental**  
High salt mist and ammonia resistance certified by TUV NORD



### Product Guarantee



### Product Certification



# VDS-S60

## Electrical Characteristics

STC	S60-320	S60-315	S60-310	S60-305	S60-300
Maximum Power at STC (Pmax)	320 W	315 W	310 W	305 W	300 W
Optimum Operating Voltage (Vmp)	33.7 V	33.4 V	33.1 V	32.8 V	32.5 V
Optimum Operating Current (Imp)	9.5 A	9.43 A	9.37 A	9.30 A	9.23 A
Open Circuit Voltage (Voc)	40.8 V	40.6 V	40.2 V	39.8 V	39.6 V
Short Circuit Current (Isc)	10.01 A	9.92 A	9.87 A	9.80 A	9.72 A
Module Efficiency	19.5%	19.2%	18.9%	18.6%	18.3%
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/m<sup>2</sup>, module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 5%.

NMOT	S60-320	S60-315	S60-310	S60-305	S60-300
Maximum Power at NMOT (Pmax)	239.3 W	235.8 W	232.6 W	228.3 W	224.8 W
Optimum Operating Voltage (Vmp)	31.4 V	31.1 V	30.8 V	30.5 V	30.2 V
Optimum Operating Current (Imp)	7.64 A	7.59 A	7.55 A	7.49 A	7.43 A
Open Circuit Voltage (Voc)	38.3 V	37.9 V	37.6 V	37.1 V	36.6 V
Short Circuit Current (Isc)	8.06 A	8.01 A	7.97 A	7.92 A	7.87 A

NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

## Temperature Characteristics

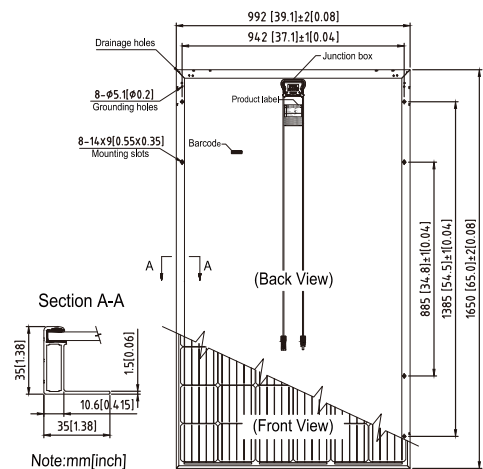
Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

## Mechanical Characteristics

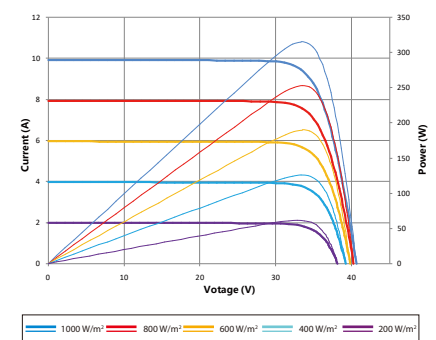
Solar Cell	Monocrystalline silicon
No. of Cells	60 (6 × 10)
Dimensions	1650 × 992 × 35mm
Weight	18.3 kgs
Front Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm <sup>2</sup> , symmetrical lengths (-) 900mm and (+) 900 mm
Connectors	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)



## 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.