



MONOCRYSTALLINE SOLAR MODULE 72cells

Product Advantages



High conversion efficiency

High module efficiency to guarantee power output.



Easy Installation and Handing

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**





























380-360w



Product Guarantee

97.5%

94 7%

100%

97.5%

Guaranteed power

Electrical Characteristics						
STC	S72-380	\$72-375	S72-370	\$72-365	\$72-360	
Maximum Power at STC (Pmax)	380 W	375 W	370 W	365 W	360 W	
Optimum Operating Voltage (Vmp)	40.1 V	39.9 V	39.7 V	39.5 V	39.2 V	
Optimum Operating Current (Imp)	9.48 A	9.40 A	9.32 A	9.24 A	9.18 A	
Open Circuit Voltage (Voc)	48.5 V	48.3 V	48.1 V	47.9 V	47.7 V	
Short Circuit Current (Isc)	9.93 A	9.85 A	9.78 A	9.71 A	9.66 A	
Module Efficiency	19.5%	19.3%	19.0%	18.8%	18.5%	
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%.

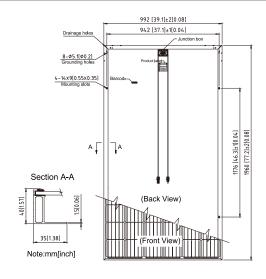
NMOT	\$72-380	\$72-375	S72-370	S72-365	S72-360
Maximum Power at NMOT (Pmax)	284.1 W	280.4 W	276.7 W	273.1 W	269.50
Optimum Operating Voltage (Vmp)	37.3 V	37.1 V	36.9 V	36.7 V	36.5 V
Optimum Operating Current (Imp)	7.63 A	7.56 A	7.50 A	7.44 A	7.38 A
Open Circuit Voltage (Voc)	45.2 V	45.0 V	44.9 V	44.7 V	44.5 V
Short Circuit Current (Isc)	8.02 A	7.96 A	7.90 A	7.85 A	7.79 A

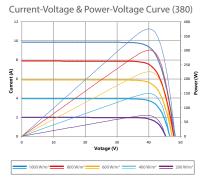
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

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				
No. of Cells	72 (6 × 12)				
Dimensions	1960 × 992 × 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 mm ² , symmetrical lengths (-) 1100mm and (+) 1100 mm				
Connectors	MC4 compatible				

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





Company Profile





320-300w

MONOCRYSTALLINE SOLAR MODULE 60cells

Product Advantages



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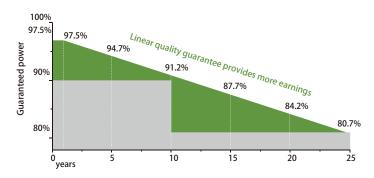


Durability against extreme environmental

High salt mist and ammonia resistance certified by **TUV NORD**



Product Guarantee



Product Certification























Electrical Characteristics						
STC	\$60-320	S60-315	\$60-310	\$60-305	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/m², module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within \pm -5%.

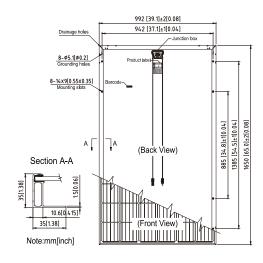
NMOT	S60-320	S60-315	S60-310	S60-305	S60-300
Maximum Power at NMOT (Pmax)	239.3 W	235.8 W	232.6 W	228.3 W	224.8 W
Optimum Operating Voltage (Vmp)	31.4 V	31.1 V	30.8 V	30.5 V	30.2 V
Optimum Operating Current (Imp)	7.64 A	7.59 A	7.55 A	7.49 A	7.43 A
Open Circuit Voltage (Voc)	38.3 V	37.9 V	37.6 V	37.1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

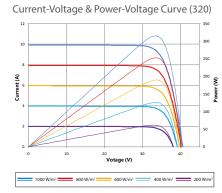
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

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				
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 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				





Company Profile



VDS-P72 350-330w

POLYCRYSTALLINE SOLAR MODULE 72cells

Product Advantages



High conversion efficiency

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Easy Installation and Handing

For various applications



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Excellent loading capability

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0 ~ +5W positive tolerance

Detailed information in Electrical Specifications



Durability against extreme environmental

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Product Certification















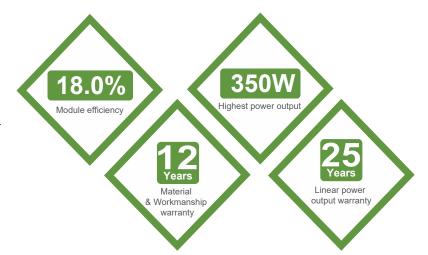












Product Guarantee

VDS-P72

Electrical Characteristics						
STC	P72-350	P72-345	P72-340	P72-335	P72-330	
Maximum Power at STC (Pmax)	350 W	345 W	340 W	335 W	330 W	
Optimum Operating Voltage (Vmp)	38.4 V	38.2 V	38.1 V	38.0 V	37.7 V	
Optimum Operating Current (Imp)	9.12 A	9.04 A	8.93 A	8.82 A	8.76 A	
Open Circuit Voltage (Voc)	46.9 V	46.7 V	46.5 V	46.1 V	45.8 V	
Short Circuit Current (Isc)	9.59 A	9.50 A	9.40 A	9.30 A	9.22 A	
Module Efficiency	18.0%	17.7%	17.5%	17.2%	17.0%	
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%.

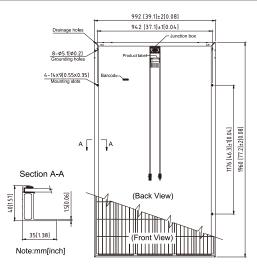
NMOT	P72-350	P72-345	P72-340	P72-335	P72-330
Maximum Power at NMOT (Pmax)	259.7 W	256.1 W	252.3 W	251.6 W	247.8 W
Optimum Operating Voltage (Vmp)	35.4 V	35.2 V	35.1 V	35.3 V	35.1 V
Optimum Operating Current (Imp)	7.34 A	7.27 A	7.19 A	7.12 A	7.06 A
Open Circuit Voltage (Voc)	43.4 V	43.2 V	43.0 V	43.1 V	42.8 V
Short Circuit Current (Isc)	7.78 A	7.70 A	7.62 A	7.53 A	7.46 A

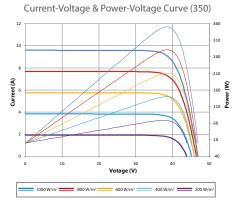
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

Temperature Characteristics			
Nominal Module Operating Temperature NMOT)	42±2°C		
Temperature Coefficient of Pmax	-0.38%/°C		
Temperature Coefficient of Voc	-0.33 %/°C		
Temperature Coefficient of Isc	0.067%/°C		

Mechanical Characteristics			
Solar Cell	Polycrystalline silicon		
No. of Cells	72 (6 × 12)		
Dimensions	1960 × 992 × 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 mm ² , symmetrical lengths (-) 1100mm and (+) 1100 mm		
Connectors	MC4 compatible		

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





Company Profile



VDS-P60

& Workmanshir warranty

POLYCRYSTALLINE SOLAR MODULE 60cells

Product Advantages



High conversion efficiency

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Easy Installation and Handing

For various applications



Outstanding low irradiation performance

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Excellent loading capability

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Product Certification



















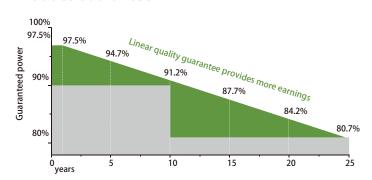












Linear power

output warranty

VDS-P60

Electrical Characteristics					
STC	P60-290	P60-285	P60-280	P60-275	P60-270
Maximum Power at STC (Pmax)	290 W	285 W	280 W	275 W	270 W
Optimum Operating Voltage (Vmp)	31.9 V	31.7 V	31.6 V	31.4 V	31.1 V
Optimum Operating Current (Imp)	9.09 A	9.00 A	8.86 A	8.76 A	8.69 A
Open Circuit Voltage (Voc)	39.1 V	38.9 V	38.5 V	38.1 V	37.9 V
Short Circuit Current (Isc)	9.56 A	9.46 A	9.38 A	9.27 A	9.21 A
Module Efficiency	17.7%	17.4%	17.1%	16.8%	16.5%
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				

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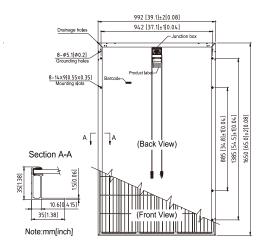
NMOT	P60-290	P60-285	P60-280	P60-275	P60-270
Maximum Power at NMOT (Pmax)	217.9 W	214.4 W	210.3 W	206.4 W	203.0 W
Optimum Operating Voltage (Vmp)	29.9 V	29.8 V	29.5 V	29.2 V	29.0 V
Optimum Operating Current (Imp)	7.28 A	7.20 A	7.14 A	7.07 A	7.01 A
Open Circuit Voltage (Voc)	36.6 V	36.4 V	36.0 V	35.7 V	35.5 V
Short Circuit Current (Isc)	7.73 A	7.65 A	7.59 A	7.49 A	7.45 A

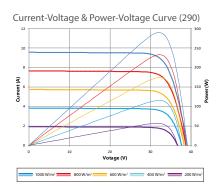
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