



VDS-S156/M10N-BG

610-635W

182 mm Half Cell, 156 Cells

TOPCon Bifacial Solar Module

Status: 09/2024

22.7% Module Efficiency 635W

Highest Power Output

15 YEARS

Product Warranty

30 YEARS

Linear Power Warranty

1.00% First year power degradation

0.40% Annual degradation

PRODUCT ADVANTAGES



16BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss Ga dopped wafer, attenuation<1% (1st year) / ≤0.40% (Linear)



Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



Lower LCOE

2% more power generation, lower LCOE



Excellent Anti-PID performance

2 times of industry standard Anti-PID test by TUV SUD



IP68 junction box

High waterproof level



Certifications of Product and Manufacturer









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ELECTRICAL DATA (STC)						
Peak Power Watts-PMAX (Wp)*	610	615	620	625	630	635
Maximum Power Voltage-VMP (V)	46.5	46.7	46.9	47.1	47.3	47.5
Maximum Power Current-Imp (A)	13.13	13.18	13.23	13.28	13.33	13.37
Open Circuit Voltage-Voc (V)	55.8	56.0	56.2	56.4	56.6	56.8
Short Circuit Current-Isc (A)	13.94	14.00	14.06	14.13	14.19	14.25
Module Efficiency ηm (%)	21.8	22.0	22.2	22.4	22.5	22.7
Power Tolerance-PMAX (W)			(0~+5		

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

ELECTRICAL DATA (BNPI)						
Peak Power-PMAX (Wp)*	675	680	685	690	695	700
Maximum Power Voltage-VMP (V)	46.5	46.7	46.9	47.1	47.3	47.5
Maximum Power Current-Imp (A)	14.52	14.56	14.61	14.65	14.69	14.74
Open Circuit Voltage-Voc (V)	55.8	56.0	56.2	56.4	56.6	56.8
Short Circuit Current-Isc (A)	15.45	15.51	15.57	15.62	15.68	15.74

BNPI: Irradiance 1000W/m², module temperature 25°C

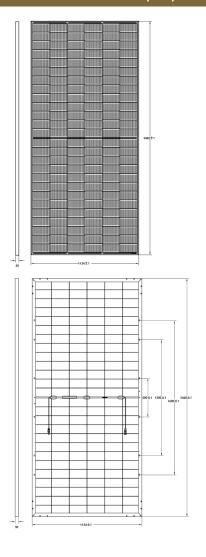
ELECTRICAL DATA (NMOT)							
Maximum Power-PMAX (Wp)*	466	470	475	479	483	487	
Maximum Power Voltage-VMP (V)	43.8	44.0	44.2	44.4	44.6	44.8	
Maximum Power Current-Imp (A)	10.65	10.69	10.75	10.79	10.83	10.87	
Open Circuit Voltage-Voc (V)	53.0	53.2	53.4	53.6	53.8	54.0	
Short Circuit Current-Isc (A)	11.21	11.26	11.33	11.38	11.43	11.48	

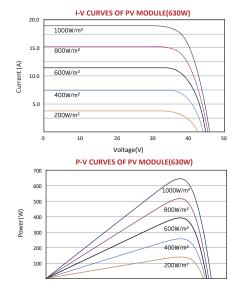
NMOT: Irradiance 800W/m², module temperature 20°C, AM=1.5, wind speed 1m/s

Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	156pcs
Module Dimensions	2465x1134x30 mm
Weight	35.5 kg
Front Glass	2.0 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	POE/EVA
Back Glass	2.0 mm, Heat Strengthened Glass (White Grid Glass)
Frame	30mm Anodized Aluminium Alloy
Junction Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0 mm ² Cable length 350 mm or customized length

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*Please refer to regional datashee	et for specied connect	or.					
TEMPERATURE RATINGS							
NMOT (Nominal Module Operating Temperature)			42°C (±2°C)				
Temperature Coefficient of F	PMAX		-0.29%/°C				
Temperature Coefficient of \	Coefficient of Voc		-0.25%/°C				
Temperature Coefficient of	Isc		+0.046%/°C				
(Do not connect Fuse in Combine	r Box with two or mor	e stri	ngs in parallel connection)				
MAXIMUM RATING	S		PACKAGING CONFIG	JRATION			
Operational Temperature	-40~+85°C		Modules per box	36 pieces			
Maximum System Voltage	1500V DC (IEC)		Modules per 40'container	576 pieces			
Max Series Fuse Rating	25A						

DIMENSIONS OF PV MODULE (mm)





COMPANY PROFILE

VDS Power GmbH is a German based company with vast experience in providing photovoltaic solutions worldwide. Our management team has been focusing on the European market for more than 10 years. We have satisfied customers in Germany, Spain, Italy, Bulgaria and many other European countries. Through direct access to production, we control the quality of photovoltaic modules by monitoring and documenting the manufacturing processes from material procurement to final testing. With a warehouse in Rotterdam, we ensure fast delivery within the EU. This enables us to respond quickly to the needs of different purchase quantities. We attach great importance to a reliable partnership and cooperation with our customers. We value reliability, commitment, safety and transparency.