



VDS-S132/M10N-BG

510-535W

182 mm Half Cell, 132 Cells

TOPCon Bifacial Solar Module

Status: 09/2024

22.5% Module Efficiency

<u>535W</u>

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



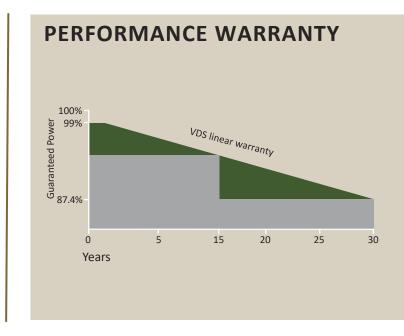
Excellent Anti-PID performance

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



IP68 junction box

High waterproof level



Certifications of Product and Manufacturer









VDS-S132/M10N-BG



ELECTRICAL DATA (STC)						
Peak Power Watts-PMAX (Wp)*	510	515	520	525	530	535
Maximum Power Voltage-VMP (V)	39.1	39.3	39.5	39.7	39.9	40.1
Maximum Power Current-Imp (A)	13.05	13.11	13.17	13.23	13.29	13.35
Open Circuit Voltage-Voc (V)	47.0	47.2	47.4	47.6	47.8	48.0
Short Circuit Current-Isc (A)	13.82	13.90	13.98	14.05	14.12	14.20
Module Efficiency ηm (%)	21.5	21.7	21.9	22.1	22.3	22.5
Power Tolerance-PMAX (W)			0~+	-5		

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

ELECTRICAL DATA (BNPI)						
Peak Power-Рмах (Wp)*	560	565	570	575	580	585
Maximum Power Voltage-VMP (V)	39.1	39.3	39.5	39.7	39.9	40.1
Maximum Power Current-Imp (A)	14.32	14.38	14.43	14.48	14.54	14.59
Open Circuit Voltage-Voc (V)	47.0	47.2	47.4	47.6	47.8	48.0
Short Circuit Current-Isc (A)	15.22	15.29	15.36	15.43	15.50	15.57

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

ELECTRICAL DATA (NMOT)						
Maximum Power-PMAX (Wp)*	388	392	396	400	404	408
Maximum Power Voltage-VMP (V)	36.8	37.0	37.2	37.4	37.6	37.8
Maximum Power Current-Imp (A)	10.55	10.60	10.65	10.71	10.75	10.80
Open Circuit Voltage-Voc (V)	44.6	44.8	45.0	45.2	45.4	45.6
Short Circuit Current-Isc (A)	11.08	11.15	11.21	11.27	11.34	11.40

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

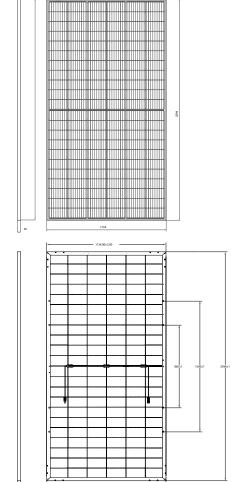
N-Type TOPCon Monocrystalline Silicon
132pcs
2094x1134x30 mm
30.0 kg
2.0 mm semi-tempered glass
POE/EVA
2.0 mm semi-tempered glass
30mm Anodized Aluminium Alloy
IP 68 rated
Photovoltaic Technology Cable 4.0 mm ² Cable length 350 mm or customized length

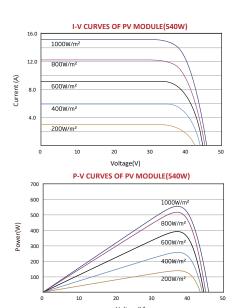
Cable length 350 mm or customized length						
*Please refer to regional datasheet for specied connector.						
TEMPERATURE RATINGS						
NMOT (Nominal Module Operati	ng Temperature)	42°C (±2°C)				
Temperature Coefficient of PMAX		-0.29%/°C				
Temperature Coefficient of Voc		-0.25%/°C				
Temperature Coefficient of Isc		+0.046%/°C				
(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)						
MAXIMUM RATINGS		PACKAGING CONFIGURATION				
Operational Temperature	-40~+85°C	Modules per box	36 pieces			

Modules per 40'container

1500V DC (IEC)

DIMENSIONS OF PV MODULE (mm)





COMPANY PROFILE

Maximum System Voltage

Max Series Fuse Rating

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.

792 pieces