

VDS-S96/M10H-BG

355-370W

182 mm Half Cell, 96 Cells

Bifacial Solar Module

Status: 12/2024

14.4%

Module Efficiency

370W

Highest Power Output

15 YEARS

Product Warranty

30 YEARS

Linear Power Warranty

2.00% First year power degradation

0.45% Annual degradation

PRODUCT ADVANTAGES



10BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss Ga doped wafer, attenuation <2% (1st year) / ≤0.45% (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

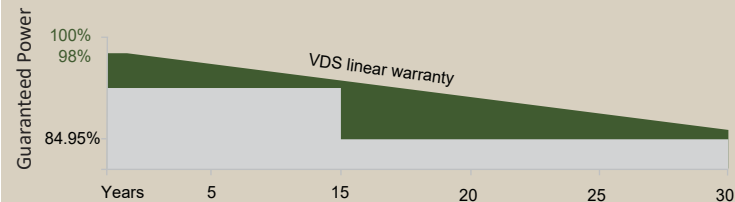
2 times of industry standard Anti-PID test by TUV SUD



IP68 junction box

High waterproof level

PERFORMANCE WARRANTY



Certifications of Product and Manufacturer



VDS Power GmbH

Rudolf-Diesel-Strasse 10, 33178 Borchten

www.vdspower.eu

ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	355	360	365	370
Maximum Power Voltage- V_{MP} (V)	27.8	28.0	28.2	28.4
Maximum Power Current- I_{MP} (A)	12.77	12.86	12.95	13.03
Open Circuit Voltage- V_{OC} (V)	33.6	33.8	34.0	34.2
Short Circuit Current- I_{SC} (A)	13.37	13.48	13.59	13.69
Module Efficiency η_m (%)	13.9	14.0	14.2	14.4
Power Tolerance- P_{MAX} (W)	0~+5			

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

ELECTRICAL DATA (BNPI)

Peak Power- P_{MAX} (Wp)*	370	375	380	385
Maximum Power Voltage- V_{MP} (V)	27.8	28.0	28.2	28.4
Maximum Power Current- I_{MP} (A)	13.31	13.39	13.48	13.56
Open Circuit Voltage- V_{OC} (V)	33.6	33.8	34.0	34.2
Short Circuit Current- I_{SC} (A)	14.03	14.13	14.24	14.34

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

ELECTRICAL DATA (NMOT)

Maximum Power- P_{MAX} (Wp)*	262	266	270	274
Maximum Power Voltage- V_{MP} (V)	26.0	26.2	26.4	26.6
Maximum Power Current- I_{MP} (A)	10.08	10.15	10.23	10.30
Open Circuit Voltage- V_{OC} (V)	31.7	31.9	32.1	32.3
Short Circuit Current- I_{SC} (A)	10.53	10.62	10.71	10.81

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

MECHANICAL DATA

Solar Cells	Monocrystalline silicon 182 mm
Cell Orientation	96 cells (4 x 24)
Module Dimensions	2272x1128x5 mm
Weight	28 kg
Front Glass	2.0 mm tempered glass
Encapsulant Material	POE/EVA
Back Glass	2.0 mm semi-tempered glass
Junction Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0 mm ² Cable length 350 mm or customized length

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature)	42°C (±2°C)
Temperature Coefficient of P_{MAX}	-0.34%/°C
Temperature Coefficient of V_{OC}	-0.25%/°C
Temperature Coefficient of I_{SC}	0.040%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

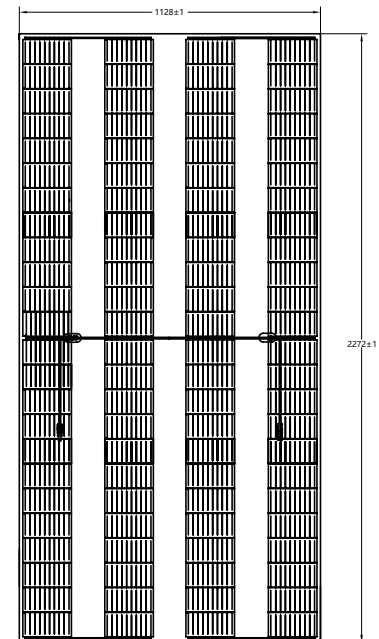
MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	25A

PACKAGING CONFIGURATION

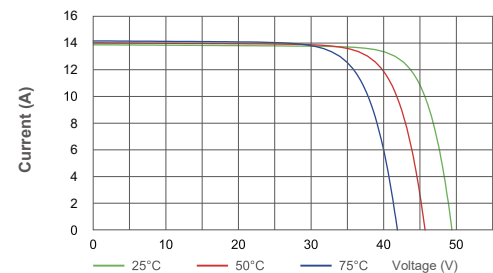
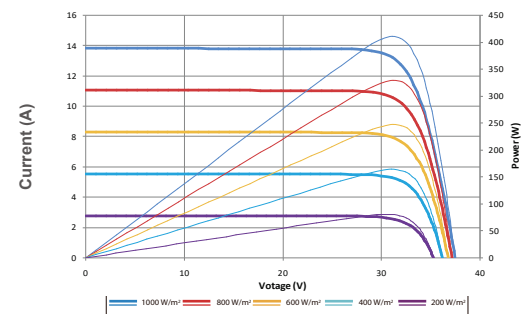
Modules per box	36 pieces
Modules per 40' container	936 pieces

DIMENSIONS OF PV MODULE (mm)



I-V CURVE

Current-Voltage & Power-Voltage Curve (370)



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.