



VDS-S108/M10H

390-410W

182 mm Half Cell, 108 Cells

Monocrystalline Solar Module

21.0%

Module Efficiency

410W

Highest Power Output

12 YEARS

Material & Workmanship Warranty

25 YEARS

Linear Power Warranty

-2.00% First year power degradation

-0.55% 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) / ≤0.55% (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

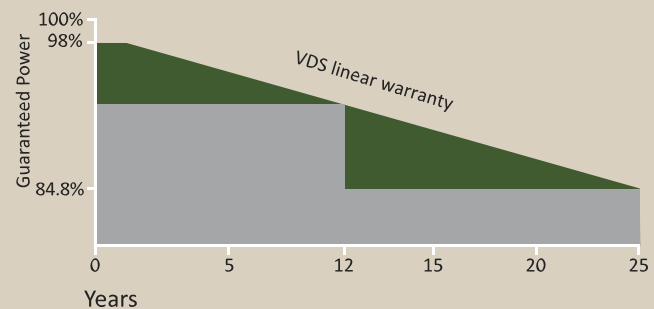
2 times of industry standard Anti-PID test by TUV SUD



IP68 junction box

High waterproof level

PERFORMANCE WARRANTY



Certifications of Product and Manufacturer



ELECTRICAL PARAMETERS

Maximum Power (Pmax/W)*	390	395	400	405	410
Operating Voltage (Vmp/V)	30.8	31.0	31.2	31.4	31.6
Operating Current (Imp/A)	12.69	12.76	12.83	12.91	12.98
Open-Circuit Voltage (Voc/V)	36.7	36.9	37.1	37.3	37.5
Short-Circuit Current (Isc/A)	13.59	13.66	13.73	13.81	13.88
Module Efficiency ηm (%)	19.9	20.2	20.5	20.7	21.0
Power Tolerance (W)	0~+5				

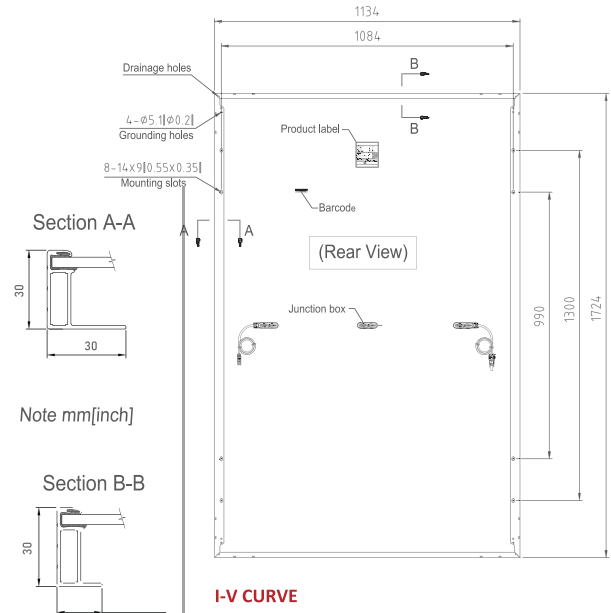
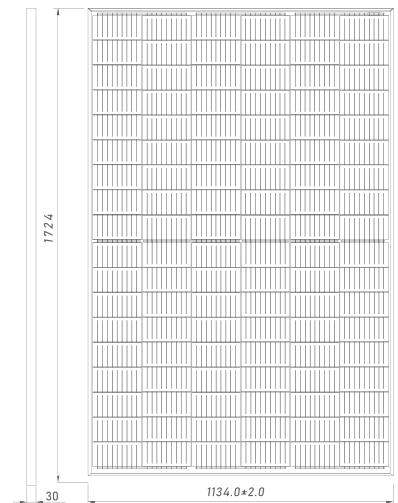
STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5; *Measuring tolerance: ±3%

PERFORMANCE AT NMOT

Maximum Power (Pmax/W)	295	298	302	306	309
Operating Voltage (Vmp/V)	28.4	28.6	28.8	29.0	29.2
Operating Current (Imp/A)	10.38	10.44	10.50	10.56	10.62
Open-Circuit Voltage (Voc/V)	34.4	34.6	34.8	35.0	35.2
Short-Circuit Current (Isc/A)	10.93	10.98	11.04	11.10	11.16

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

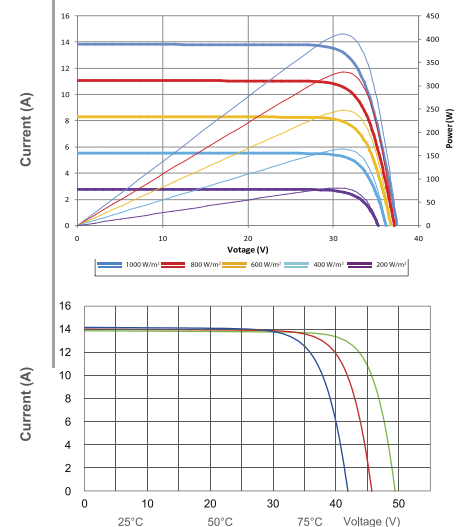
TECHNICAL DRAWINGS



Note mm[inch]

I-V CURVE

Current-Voltage & Power-Voltage Curve (410)



MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	182*182 mm
Cell Arrangement	108 (6*18)
Weight	21 kg
Module Dimensions	1724*1134*30 mm
Cable Length	350 mm or customized length
Cable Cross Section Size	TÜV: 4 mm ²
Front Glass	3.2 mm AR Coating Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration	36 pcs/Cartron, 936 pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

Maximum System Voltage	1500V/DC (IEC)
Operating Temperature	-40°C to +85°C
Maximum Series Fuse	25A
Static Loading	Snow Loading: 5400Pa / Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 compatible

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.34%/°C
Temperature Coefficient Voc	-0.25%/°C
Temperature Coefficient Isc	+0.040%/°C
NMOT	42±2°C

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.