



VDS-108/M10H | 182mm Half Cell Series

390-410W

108-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE Artikel-Nr.: 410-03.2022-R35-C350

21.0%

Module Efficiency

<u>410W</u>

12 YEARS

25 YEARS

Module Efficiency Highest Power Output

Material & Workmanship Warranty

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 dopped 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



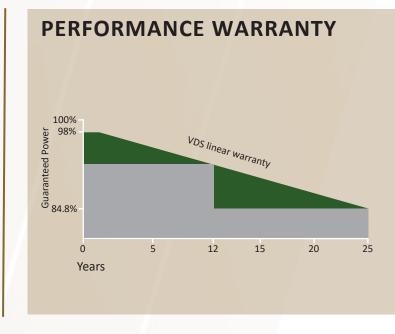
Excellent Anti-PID performance

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



IP68 junction box

High waterproof level



Certifications of Product and Manufacturer









VDS-S108/M10H



ELECTRICAL PARAMETER	RS .				
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

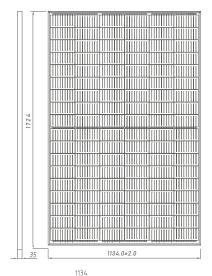
NMOT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind speed 1m/s

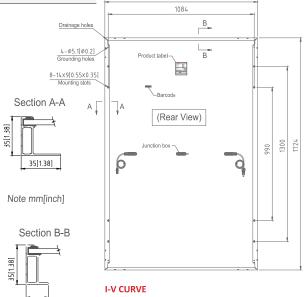
MECHANICAL SPECIFICATION	N	
Cell Type	Monocrystalline	
Cell Dimensions	182*182 mm	
Cell Arrangement	108 (6*18)	
Weight	22 kg	
Module Dimensions	1724*1134*35 mm	
Cable Length	350 mm or customized length	
Cable Cross Section Size	TÜV: 4 mm²	
Front Glass	3.2 mm AR Coating Tempered Glass	
No. of Bypass Diodes	3/6	
Packing Configuration	31 pcs/Carton, 806 pcs/40HQ	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68	

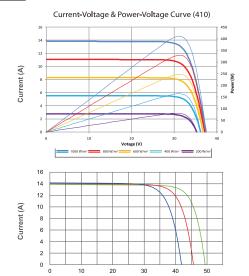
OPERATING CONDITIONS	
Maximun System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C to +85°C
Maximun Series Fuse	25A
Static Loading	Snow Loading: 5400Pa / Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100ΜΩ
Connector	MC4 compatible

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

TECHNICAL DRAWINGS







COMPANY PROFILE

VDS-Power is a German-based company with strong expertise in providing Photovoltaic solution globally. Our management team has been focused in European market for more than 10 years. We have satisfied customers in Germany, Spain, Italy, Bulgarian and many other European countries. Through direct access to production, we control the quality of photovoltaic modules by monitoring and documents the manufacturing processes from material procurement to final testing. With a warehouse in Rotterdam we ensures fast delivery within EU. This enables us to quickly meet the needs of different purchase quantities. We attach great importance to a reliable partnership and cooperation with our customers. We value reliability, commitment, security and transparency.