



170-180W

182 mm Half Cell, 36 Cells

VDS-S36/M12H

Monofacial Solar Module

Module Efficiency

18.0%

Highest Power Output

180W

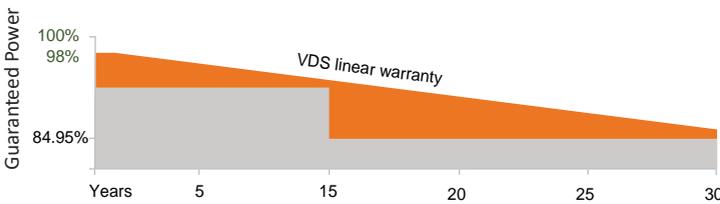
Product Warranty

15 YEARS

Linear Power Warranty

30 YEARS

PERFORMANCE WARRANTY



2.00% First year power degradation

0.45% Annual degradation

PRODUCT ADVANTAGES



12BB half-cut cell technology

New circuit design, lower internal current, lower R_s loss Ga doped wafer, attenuation <2%(1st year)/ $\leq 0.45%$ (Linear)



Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



Lower LCOE

1% more power generation, lower LCOE



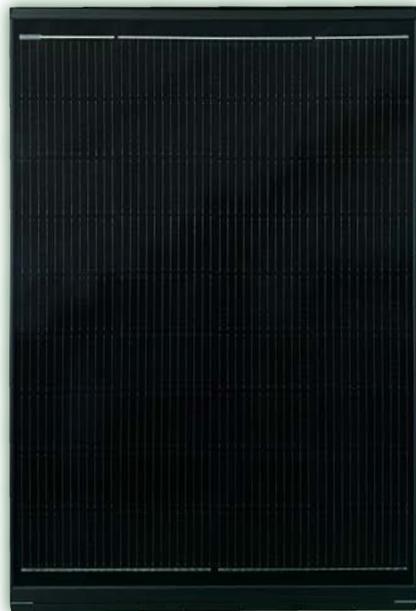
Excellent Anti-PID performance

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



IP68 junction box

High waterproof level



VDS-S36/M12H

ELECTRICAL PARAMETERS

Maximum Power (Pmax/W)*	170	175	180
Operating Voltage (Vmp/V)	20.0	20.2	20.4
Operating Current (Imp/A)	8.50	8.66	8.82
Open-Circuit Voltage (Voc/V)	24.6	24.8	25.0
Short-Circuit Current (Isc/A)	8.75	8.94	9.11
Module Efficiency η_m (%)	17.0	17.5	18.0
Power Tolerance (W)		0~+5	

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

MECHANICAL SPECIFICATION

Cell Type	Monocrystalline silicon
Cell Dimensions	182
Cell Arrangement	36
Weight	11.3 kg
Module Dimensions	1105*903*33mm
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	2/2
Packing Configuration	31 pcs/Carton, 1240pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68

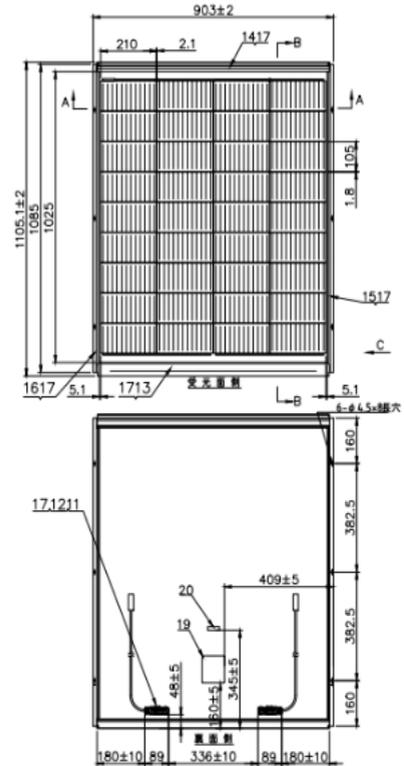
OPERATING CONDITIONS

Maximum System Voltage	600V/DC(IEC)
Operating Temperature	-40°C to +85°C
Maximum Series Fuse	15A
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	-0.26%/°C
Temperature Coefficient Isc	+0.050%/°C
NMOT	42±2°C

TECHNICAL DRAWINGS



I-V CURVE

