



VDS-S144/M10H

182mm Half Cell Series

530-550W

144-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE

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



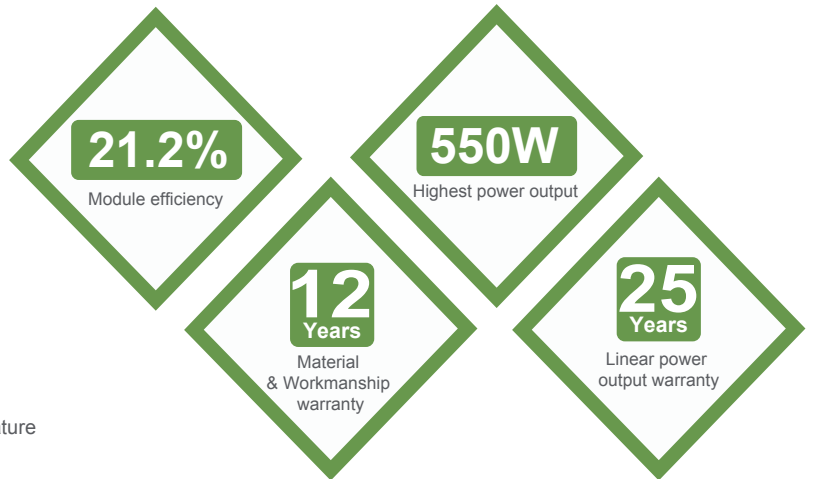
Excellent Anti-PID performance

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

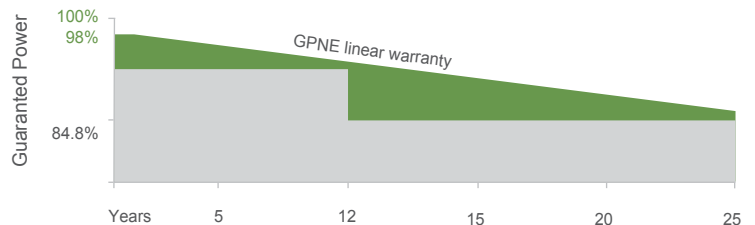


IP68 junction box

High waterproof level



Product Guarantee

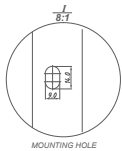
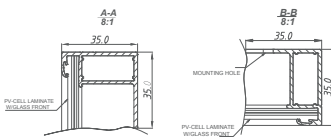
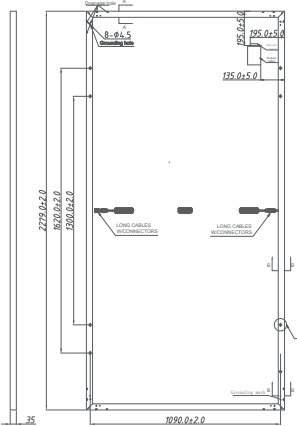
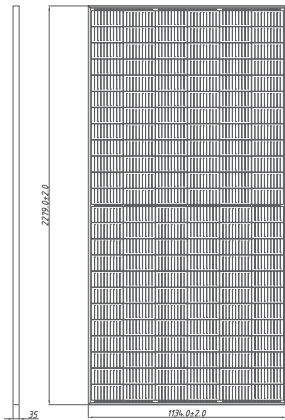


Product Certification



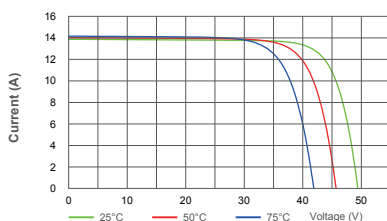
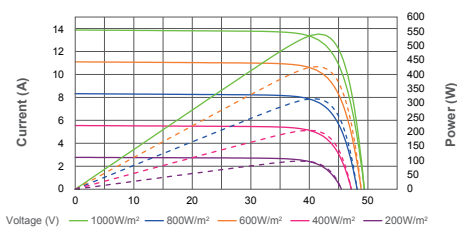
VDS-S144/M10H

TECHNICAL DRAWINGS



I-V CURVE

VDS-S144/M10H-540



ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 ~ +3%)

Parameter	530	535	540	545	550
Maximum Power (Pmax/W)	530	535	540	545	550
Operating Voltage (Vmpp/V)	40.8	41.0	41.2	41.4	41.6
Operating Current (Impp/A)	13.00	13.05	13.11	13.17	13.23
Open-Circuit Voltage (Voc/V)	49.0	49.2	49.4	49.6	49.8
Short-Circuit Current (Isc/A)	13.76	13.81	13.87	13.93	13.99
Module Efficiency η m(%)	20.4	20.6	20.8	21.0	21.2

Performance at NMOT

Parameter	395	398	402	406	410
Maximum Power (Pmax/W)	395	398	402	406	410
Operating Voltage (Vmpp/V)	38.0	38.2	38.4	38.6	38.8
Operating Current (Impp/A)	10.40	10.44	10.49	10.54	10.58
Open-Circuit Voltage (Voc/V)	45.9	46.1	46.3	46.4	46.6
Short-Circuit Current (Isc/A)	11.09	11.13	11.18	11.23	11.28

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATION

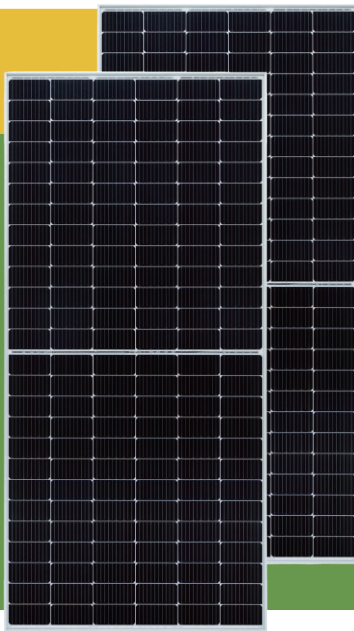
Cell Type	Monocrystalline
Cell Dimensions	182*182mm
Cell Arrangement	144 (6*24)
Weight	29kg
Module Dimensions	2279*1134*35mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TÜV: 4mm ²
Front Glass	3.2mm AR Coating Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration	31 pcs/Carton, 620 pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V/DC(IEC)
Operating Temperature	-40°C ~ +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	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43 ± 2°C



VDS-S156/M10H 182mm Half Cell Series 570-590W

156-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE

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



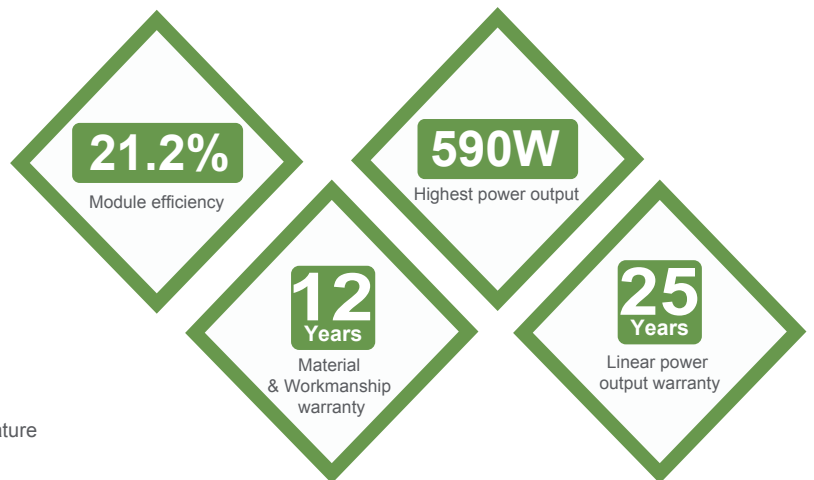
Excellent Anti-PID performance

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

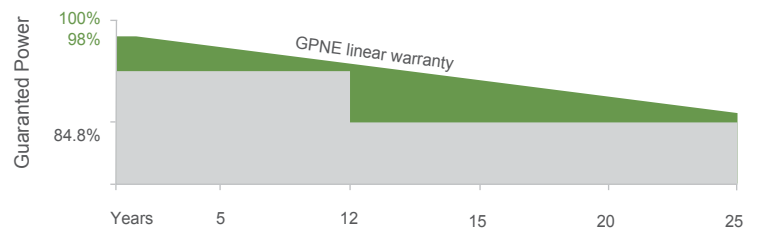


IP68 junction box

High waterproof level



Product Guarantee

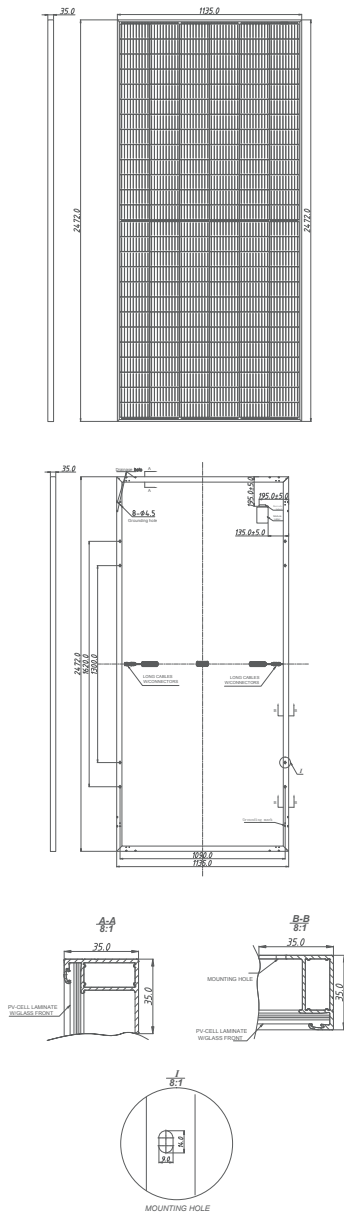


Product Certification



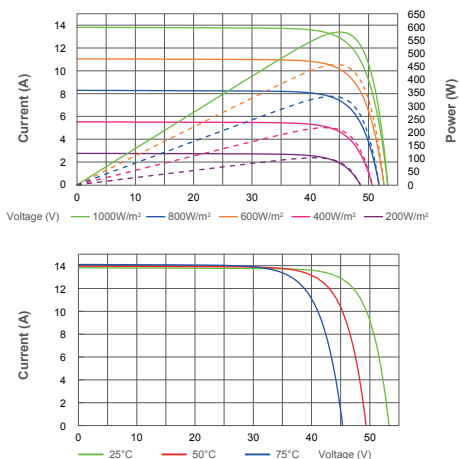
VDS-S156/M10H

TECHNICAL DRAWINGS



I-V CURVE

VDS-S156/M10H-580W



ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 ~ +3%)

Parameter	570	575	580	585	590
Maximum Power (Pmax/W)	570	575	580	585	590
Operating Voltage (Vmpp/V)	45.1	45.2	45.3	45.4	45.5
Operating Current (Impp/A)	12.65	12.73	12.81	12.89	12.97
Open-Circuit Voltage (Voc/V)	53.5	53.6	53.7	53.8	53.9
Short-Circuit Current (Isc/A)	13.38	13.46	13.54	13.62	13.70
Module Efficiency η m(%)	20.3	20.5	20.7	20.9	21.0

Performance at NMOT

Parameter	420	424	427	431	435
Maximum Power (Pmax/W)	420	424	427	431	435
Operating Voltage (Vmpp/V)	41.9	42.0	42.1	42.2	42.3
Operating Current (Impp/A)	10.03	10.10	10.16	10.22	10.28
Open-Circuit Voltage (Voc/V)	50.0	50.1	50.2	50.3	50.4
Short-Circuit Current (Isc/A)	10.79	10.85	10.91	10.98	11.04

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	182*182mm
Cell Arrangement	156 (6*26)
Weight	31.5kg
Module Dimensions	2472*1135*35mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TÜV: 4mm ²
Front Glass	3.2mm AR Coating Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration	31pcs/Carton, 558pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V/DC(IEC)
Operating Temperature	-40°C ~ +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	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43 ± 2°C