

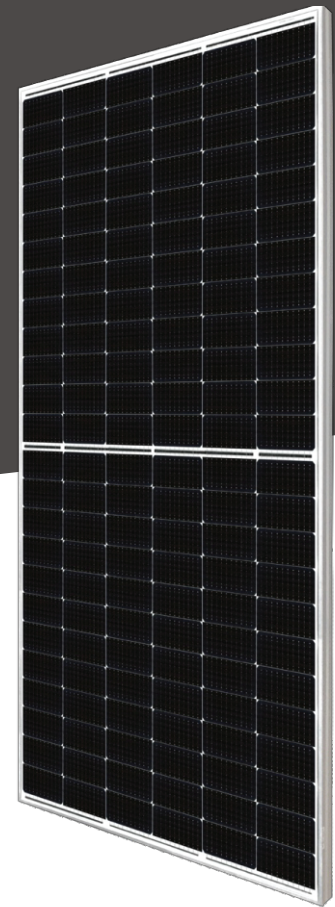
VSMH-144-M10

POWER RANGE

525W~550W

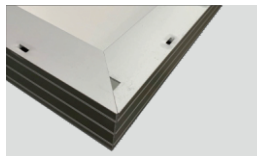
CELL SIZE

182*91mm



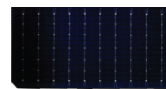
JUNCTION BOX

Waterproof protection grade:IP67/IP68
Safety Level: Class II
Maximum System Voltage: 1500V
outstanding waterproof level.
Effectively resist harsh environments



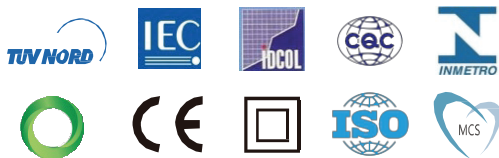
Frame

Strong machanical load
resistance up to 5400Pa
Anodic oxidation layer resistant to
chemical corrosion available
in silver and black



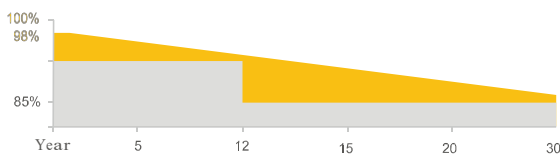
10BB

QUALIFICATIONS AND CERTIFICATES



• IEC61215 / • IEC61730

WARRANTY



- 12 YEARS** Guarantee on product material and workmanship
- 30 YEARS** Linear Power output warranty



Half-cut Technology

New circuit design, lower internal current and lower internal resistance loss



Significantly avoiding heat spot

The unique circuit design to reduce the temperature of heat spot significantly, so that to reduce the power loss and then increase the output of modules.



Lower cost

Increasing power generation can reduce the cost per kilowatt-hour

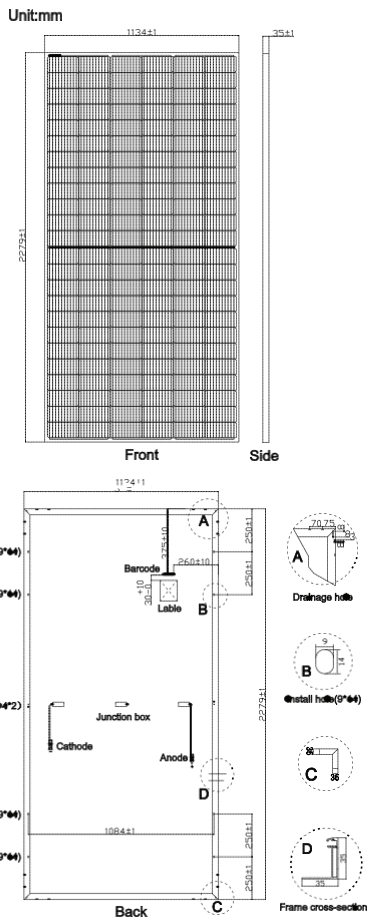


Excellent performance of PID resistance

The performance of PID resistance (Potential Induced Degradation) passed the standard of TUV Nord.

VSMH-144-M10

PV DRAWINGS



	VSMH525-36V -MH	VSMH535-36V -MH	VSMH540-36V -MH	VSMH545-36V -MH	VSMH550-36V -MH
Peak Power(Pmax)	525.00	535.00	540.00	545.00	550.00
Maximum Power Voltage(Vmp)	41.28	41.60	41.76	41.93	42.10
Maximum Power Current(Imp)	12.72	12.84	12.93	13.00	13.16
Open Circuit Voltage(Voc)	49.10 ± 3%	49.50 ± 3%	49.70 ± 3%	49.90 ± 3%	50.10 ± 3%
Short Circuit Current(Isc)	13.56 ± 3%	13.74 ± 3%	13.83 ± 3%	13.92 ± 3%	14.01 ± 3%
	20.31	20.70	20.89	21.08	22.28

* STC: irradiance 1000 W/m², AM 1.5, and cell temperature of 25°C

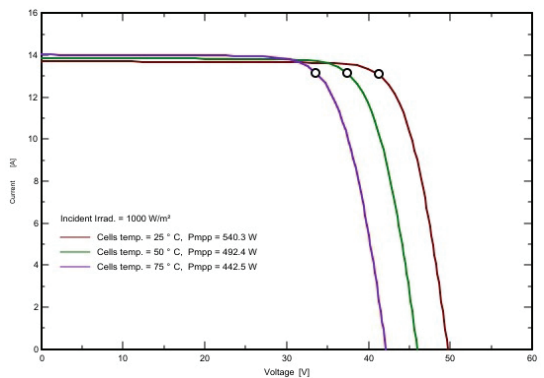
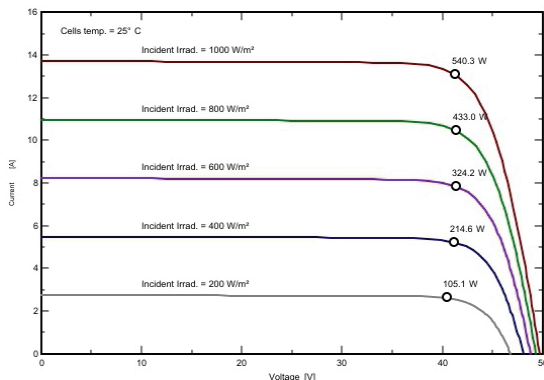
	VSMH525-36V -MH	VSMH535-36V -MH	VSMH540-36V -MH	VSMH545-36V -MH	VSMH550-36V -MH
Peak Power(Pmax)	390.30	397.7	401.4	405.1	408.9
Maximum Power Voltage(Vmp)	38.30	38.62	38.78	38.93	39.09
Maximum Power Current(Imp)	10.20	10.30	10.35	10.41	10.46
Open Circuit Voltage(Voc)	46.00 ± 3%	46.36 ± 3%	46.54 ± 3%	46.73 ± 3%	46.92 ± 3%
Short Circuit Current(Isc)	10.81 ± 3%	10.97 ± 3%	11.05 ± 3%	11.13 ± 3%	11.20 ± 3%

* NOCT: irradiance 800 W/m², AM 1.5, ambient temperature 20°C, wind speed 1 m/s

TEMPERATURE & MAXIMUM RATING

Maximum System Voltage(V)	1500 V
Maximum Series Fuse Rating(A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient(W/°C)	-0.350 %/°C
Voc Temperature Coefficient(V/°C)	-0.285 %/°C
Isc Temperature Coefficient(A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature(°C)	45 ± 2 °C
Operating and Storage Temperature(°C)	-40~+85 °C

IV CURVE (540W)



MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	144 (12*12)
Dimensions	2279*1134*35mm
Weight	28.40kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

20FT container	5 Packages/155pcs
40HQ container	20 Packages/620pcs