

HD SOLAR

Topcon N Monocrystalline 144 Half cells M10L Bifacial PV Module

HDM-T 580-605wp bifacial double glass PV MODULE

RELIABLE QUALITY

- 30-year Product life, more than 10%-30% additional power gain comparing with conventional module ,ZERO LID,No LID,more power generation
- High power and 1500v system voltage,Saving BOS cost ,Wide spectral response,Higher power output even under low-light setting like smog or cloudy days
- Higher power generation under working conditions,thanks to passivating contact cell technology
- BIPV,Vertical Installation/Snowfield/High-humid Area/Windy and dusty area

MECHANICAL PARAMETERS

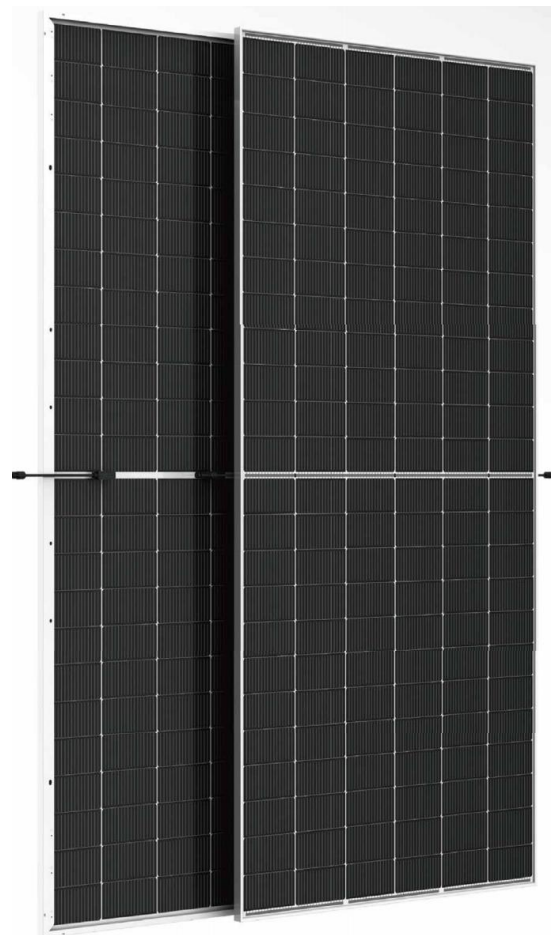
Cell(mm)	Mono182.2×91.875mm 16BB
Weight(kg)	31.5KG
Dimensions(L×W×H)(mm)	2278×1134×30mm
Cable cross section size(mm ²)	4mm ² 300mm in length
NO.of cells and connections	144(12×12)
Front/Real Glass	2.0mm/2.0mm
Frame	Anodized Aluminium
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible

WORKING CONDITIONS

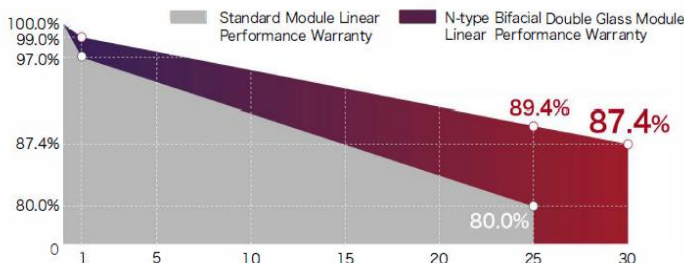
Maximum system voltage	DC1500V(IEC)
Operating temperature	-40℃ --- +85℃
Maximum series fuse	25A
Fire Safety	Class C
Power Tolerance	0 -+ 5WP
Bifaciality	80%(±5%)

Packing Configuration

36pcs/Pallet	20GP 180PCS	40HQ 720PCS
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-1.00% 1st-year Degradation | **15** Years Product Material & Workmanship
-0.40% Annual Degradation | **30** Years Linear Performance Warranty



Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types

HD solar power ltd

TEL:86-18688922286

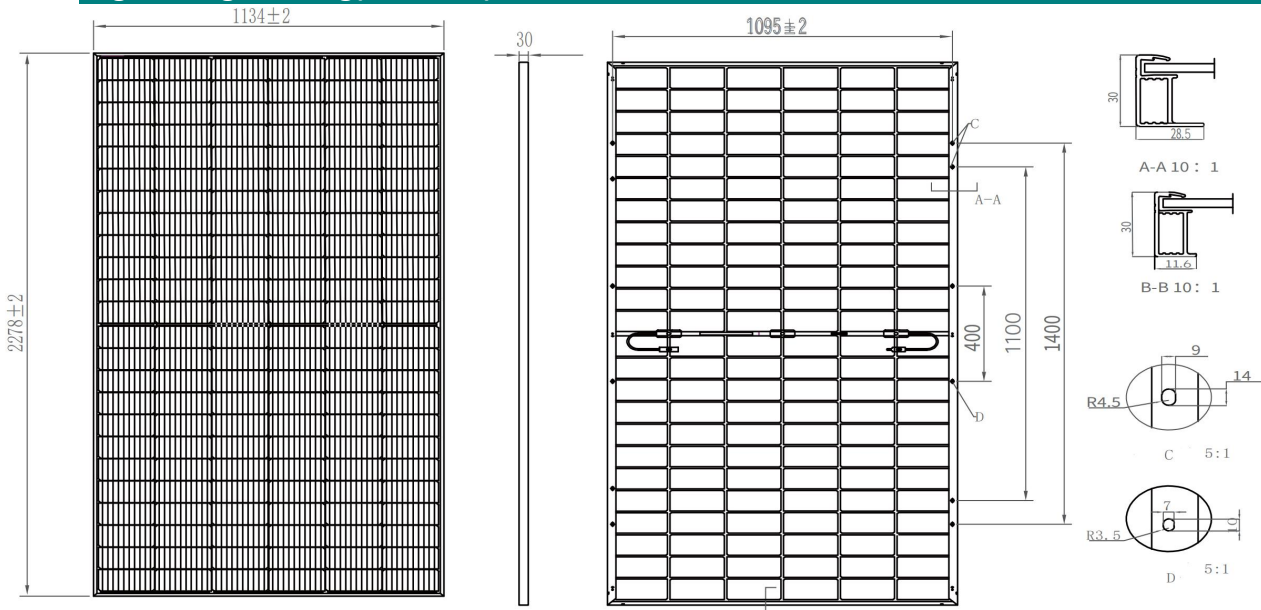
email: hdosolar@hdosolar.com

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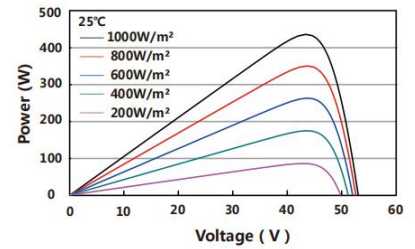
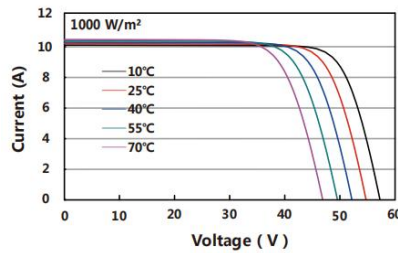
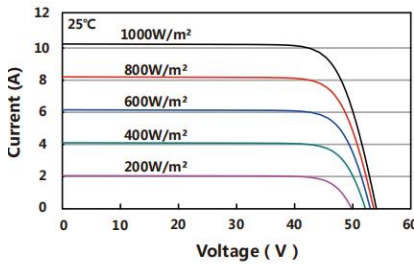
Add: Rm803 Chevalier House 45-51 Chatham Road South Tsim Sha Tsui Hongkong

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Engineering Drawing(unit mm)



I-V CURVE



Electrical Properties	STC Irradiance 1000W/m ² , Module Temperature 25°C, Air Mass 1.5					
Rated maximum power at STC(W)	580	585	590	595	600	605
Open circuit voltage (Voc/V)	52.52	52.75	52.92	53.12	53.32	53.52
Maximum power voltage(Vmp/V)	44.07	44.28	44.49	44.64	44.78	44.91
Short circuit current(ISC/A)	13.79	13.84	13.89	13.96	14.03	14.10
Maximum power current(IMP/A)	13.16	13.21	13.26	13.33	13.40	13.47
Module Efficiency [%]	22.50	22.60	22.80	23.00	23.20	23.40

Electrical Properties	NOCT:Irradiance at 800w/m ² , Ambient Temperature 20 Wind Speed 1m/s					
Testing condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Pwer(Pmax)(w)	643	648	654	659	665	670
Mpp Voltage(Vmp)(v)	44.07	44.29	44.49	44.65	44.78	44.91
MPP Current(Imp)(A)	14.59	14.63	14.70	14.76	14.85	14.92
Open Circuit Voltage(VOC)(V)	52.54	52.74	52.94	53.14	53.34	53.54
Short Circuit Current(Isc)(A)	15.28	15.33	15.39	15.47	15.55	15.62

Different Power Generation Gain						Temperature Coefficient	
Power Gain	Pmax(W)	Vmp(V)	Imp(A)	Voc(V)	Isc(A)	Temperatrue Coefficient of Pmax	-0.290%/°C
10%	621	43.0	14.44	51.28	15.30	Temperature Coefficiency of Voc	-0.250%/°C
15%	644	43.0	14.98	51.28	15.87	Temperature Coefficient of Isc	+0.045%/°C
20%	667	43.0	15.51	51.28	16.43	NOCT	42 ±2°C
25%	690	43.0	16.05	51.28	17.01	Temperature Coefficient of Pmax	0.03%°C
30%	713	43.0	16.13	51.28	17.57		