HD SOLAR

Monocrystalline Half-cell 540-560 Single Glass PV Module

HDM-M10 Half cells 540-560wp Single glass PV MODULE

RELIABLE QUALITY

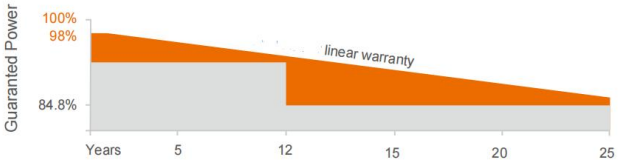
- 10BB Half-cut cell technology New circuit design,Lower internal current,Lower Rs loss Ga dopped wafer,attenuation<2%(1st year)/≤0.55%(linear)
- Significantly Lower the risk of hot spot Special circuit design with much lower hot spot temperature
- Lower LCOE 2% More power generation,lower LCOE
- Exellent Anti-PID performance 2 times of industry standard Anti-PID test TUV SUD
- Higher power generation under working conditions,thanks to passivating contact cell technology
- Designed with aesthetics in mind,thinner wires that appear all black at a distance

MECHANICAL PARAMETERS

Cell(mm)	Mono182×91.00mm 10BB
Weight(kg)	28KG
Dimensions(L×W×H)(mm)	2278×1134×35mm
Cable cross section size(mm^2)	$4mm^2$ 300mm in length
N0.of cells and connections	144(6×24)
Front Glass	3.2mm AR Coating Tempered Glass
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
Static Loading	Snow Loading:5400Pa/Wind Loading:2400Pa
Conductivity at Ground	≤0.1Ω
Resistance	≥100MΩ
Fire Safety	Class C
Power Tolerance	0 -+ 5WP



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

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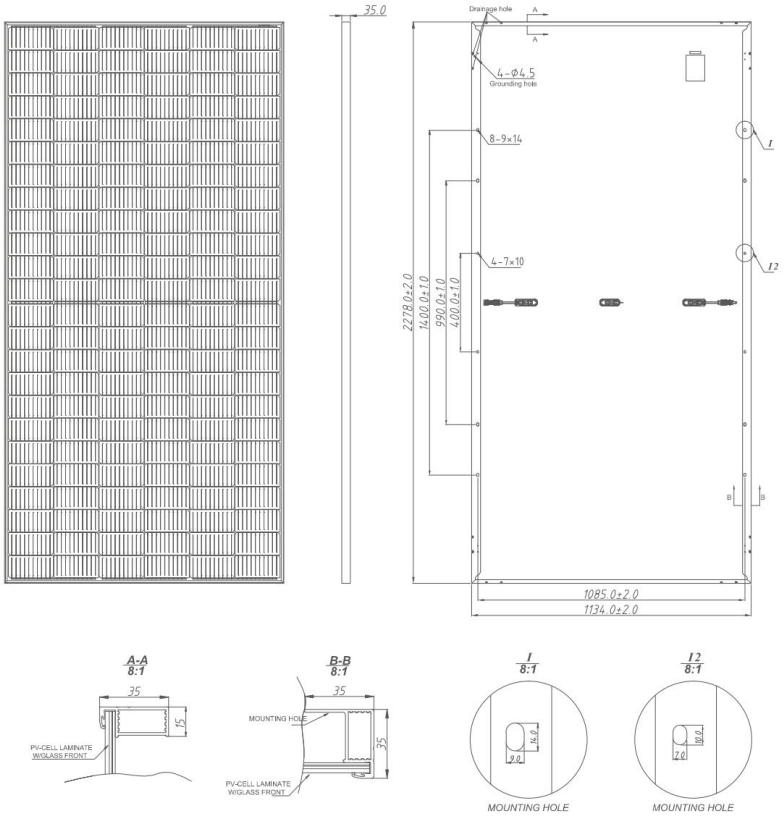
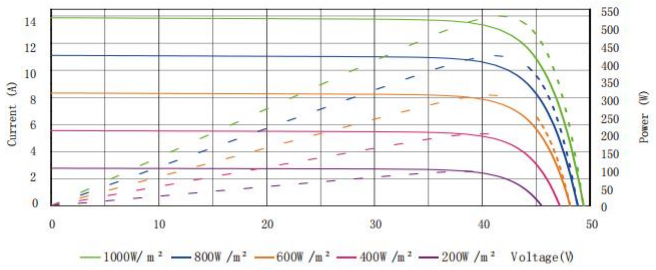
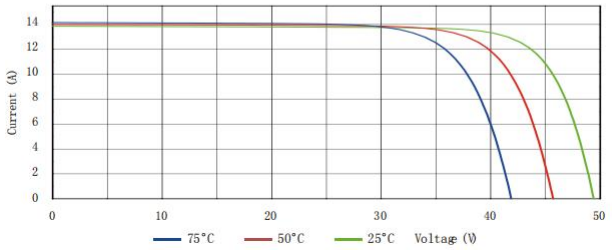
Monocrystalline Half-cell 540-560 Single Glass PV Module

Engineering Drawing(unit mm)



I-V CURVE





customized cable length available upon request

Electrical Propeties STC	Irradiance 1000W/m²,Module Temperature 25℃,Air Mass 1.5				
Rated maximum power at STC(W)	540	545	550	555	560
Open circuit voltage (Voc/V)	49.50	49.65	49.80	49.95	50.10
Maximum power voltage(Vmp/V)	41.65	41.80	41.95	42.10	42.25
Short circuit current(Isc/A)	13.85	13.92	13.98	14.04	14.10
Maximum power current(Imp/A)	12.97	13.04	13.12	13.19	13.26
Module Efficiency［%］	20.90	21.10	21.30	21.50	21.70
Performance at NMOT NOCT:Irradiance at 800w/m2,Ambient Temperature 20		Wind Speed 1m/s			
Peak Pwer(Pmax)(w)	403.6	407.4	411.1	414.8	418.6
Mpp Voltage(Vmp)(v)	38.69	38.83	38.97	39.11	39.25
MPP Current(Imp)(A)	10.43	10.49	10.56	10.61	10.67
Open Circuit Voltage(VOC)(V)	46.54	46.68	46.82	46.97	47.11
Short Circuit Current(Isc)(A)	11.20	11.25	11.31	11.35	11.40

Temperature Coefficient

Temperatrue Coefficient of Pmax	-0.350%/℃
Temperature Coefficiency of Voc	-0.260%/℃
Temperature Coefficient of Isc	+0.048%/℃
NOCT	43 ±2℃

Temperature Coefficient of Pmax 0.03%℃

Packing Configuration

31pcs/Pallet 40HQ 620 PCS