

HDM-IBC G12R 144 Half cells 640-670wp Single glass PV MODULE

RELIABLE QUALITY

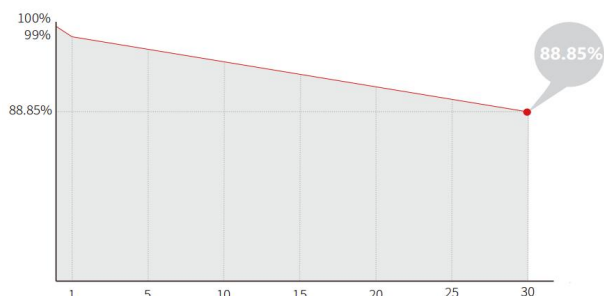
- IBC Half-cut cell technology New circuit design, Lower internal current, Lower R_s loss Ga doped wafer, attenuation $<1\%$ (1st year) / $\leq 0.35\%$ (linear)
- Significantly Lower the risk of hot spot Special circuit design with much lower hot spot temperature
- Lower LCOE 2% More power generation, lower LCOE
- Excellent Anti-PID performance 2 times of industry standard Anti-PID test 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)	IBC Mono182×105.00mm
Weight(kg)	28.5KG
Dimensions(L×W×H)(mm)	2382×1134×30mm
Cable cross section size(mm ²)	4mm ² 1400mm in length
NO.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/UL)
Operating temperature	-40°C --- +85°C
Maximum series fuse	25A
Static Loading Snow Loading:5400Pa/Wind Loading:2400Pa	
Conductivity at Ground	$\leq 0.1\Omega$
Resistance	$\geq 100M\Omega$
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

HD solar power ltd

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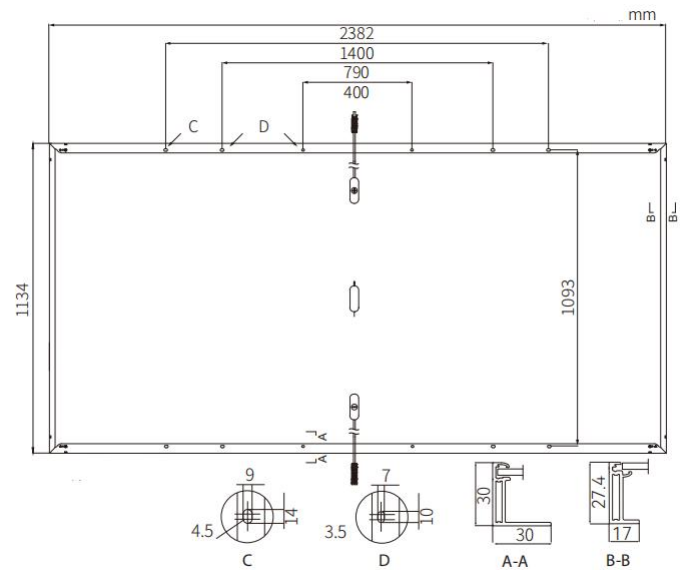
www.hdsolar.com

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HD SOLAR

Monocrystalline IBC Single Glass PV Module

Engineering Drawing(unit mm)



customized cable length available upon request

Electrical Propeties	STC	Irradiance 1000W/m ² ,Module Temperature 25°C,Air Mass 1.5						
Rated maximum power at STC(W)		640	645	650	655	660	665	670
Open circuit voltage (Voc/V)		53.70	53.80	53.90	54.00	54.10	54.20	54.30
Maximum power voltage(Vmp/V)		44.36	44.46	44.56	44.66	44.76	44.86	44.96
Short circuit current(Isc/A)		15.13	15.21	15.29	15.37	15.45	15.53	15.61
Maximum power current(Imp/A)		14.43	14.51	14.59	14.67	14.75	14.83	14.91
Module Efficiency [%]		23.70	23.90	24.10	24.20	24.40	24.60	24.80

Performance at NMOT	NOCT:Irradiance at 800w/m ² ,Ambient Temperature 20	Wind Speed 1m/s						
Peak Pwer(Pmax)(w)		487	491	495	499	502	506	510
Mpp Voltage(Vmp)(v)		42.15	42.25	42.35	42.44	42.54	42.64	42.74
MPP Current(Imp)(A)		11.56	11.63	11.69	11.76	11.82	11.88	11.94
Open Circuit Voltage(VOC)(V)		51.04	51.13	51.23	51.32	51.42	51.52	51.62
Short Circuit Current(Isc)(A)		12.15	12.22	12.28	12.34	12.41	12.48	12.55

Temperature Coefficient

Temperatrue Coefficient of Pmax -0.260%/°C

Temperature Coefficiency of Voc -0.200%/°C

Temperature Coefficient of Isc +0.050%/°C

NOCT 43 ±2°C

Temperature Coefficient of Pmax 0.03%°C

Packing Configuration

35pcs/Pallet 20GP 140PCS 40HQ 700PCS