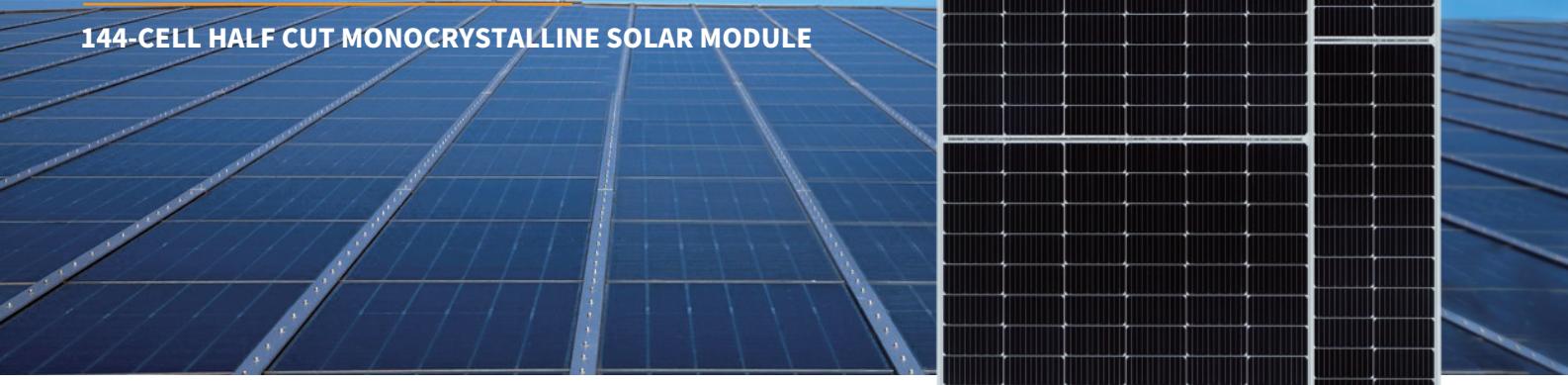


# CDZ-S144/M10H-XXX-BG

## 182mm Dual Glass 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

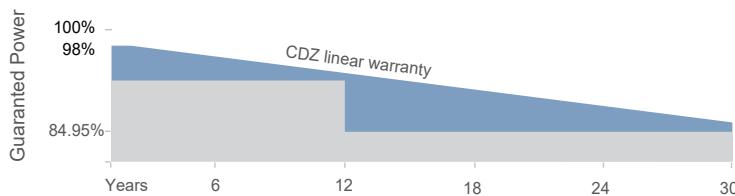
2 times of industry standard Anti-PID test by TUV SUD



### IP68 junction box

High waterproof level

## Product Guarantee



Highest power output



Material & Workmanship warranty



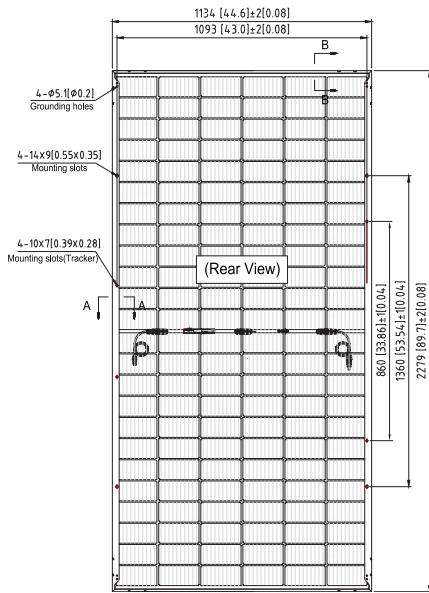
Module efficiency



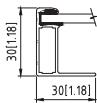
Linear power output warranty



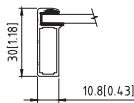
## TECHNICAL DRAWINGS



Section A-A

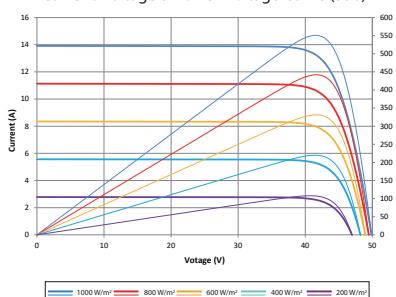


Section B-B



Note:mm[inch]

## Current-Voltage & Power-Voltage Curve (550)



## Packing Configuration

Container	40' HC
Pieces per pallet	36
Pallets per container	20
Pieces per container	720
Packaging box dimensions	2330×1130×1270 mm
Packaging box weight	1200 kg

## ELECTRICAL PARAMETERS

Maximum Power (Pmax/W)*	530	535	540	545	550
Operating Voltage (Vmpp/V)	41.7	41.8	41.9	42.0	42.1
Operating Current (Impp/A)	12.71	12.80	12.89	12.98	13.07
Open-Circuit Voltage (Voc/V)	49.5	49.6	49.7	49.8	49.9
Short-Circuit Current (Isc/A)	13.44	13.53	13.62	13.71	13.80
Module Efficiency ηm(%)	20.5	20.7	20.9	21.1	21.3
Power Tolerance(W)	0~+5				

STC:Irradiance 1000W/m<sup>2</sup>,module temperature 25°C,AM=1.5,\*Measuring tolerance: ±3%

## Performance at NMOT

Maximum Power (Pmax/W)	394	398	402	405	409
Operating Voltage (Vmpp/V)	38.8	38.9	39.0	39.1	39.2
Operating Current (Impp/A)	10.16	10.23	10.30	10.37	10.44
Open-Circuit Voltage (Voc/V)	46.3	46.4	46.5	46.6	46.7
Short-Circuit Current (Isc/A)	10.83	10.91	10.98	11.05	11.12

NMOT:Irradiance 800W/m<sup>2</sup>,ambient temperature 20°C,AM=1.5, wind speed 1m/s

## Electrical Characteristics with Different Rearside Power Gain (Reference to 540 W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	567	621	675
Optimum Operating Voltage (Vmpp)	41.9	42.0	42.1
Optimum Operating Current (Impp)	13.53	14.79	16.08
Open Circuit Voltage (Voc)	49.7	49.8	49.9
Short Circuit Current (Isc)	14.30	15.71	17.13
Module Efficiency	21.9	24.0	26.1

## Temperature Characteristics

Nominal Module Operating Temperature ( NMOT )	42 ± 2 °C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.040%/°C

## Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2279 × 1134 × 30 mm (89.7 × 44.6 × 1.2 inches)
Weight	31.5 kgs (69.4 lbs.)
Front\Back Glass	2.0+2.0 mm (0.079+0.079inches) semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	Photovoltaic Technology Cable 4.00mm <sup>2</sup> Cable length 350mm or customized length
Refer. Bifaciality Factor	( 70 ± 5 ) %