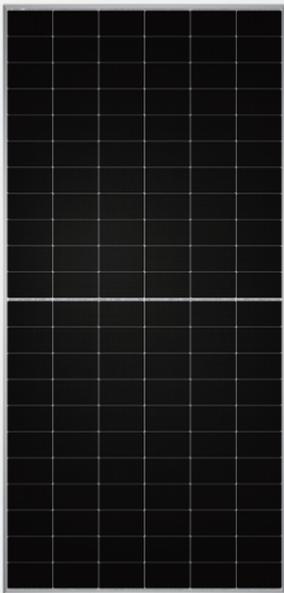


# TNCC 2.0

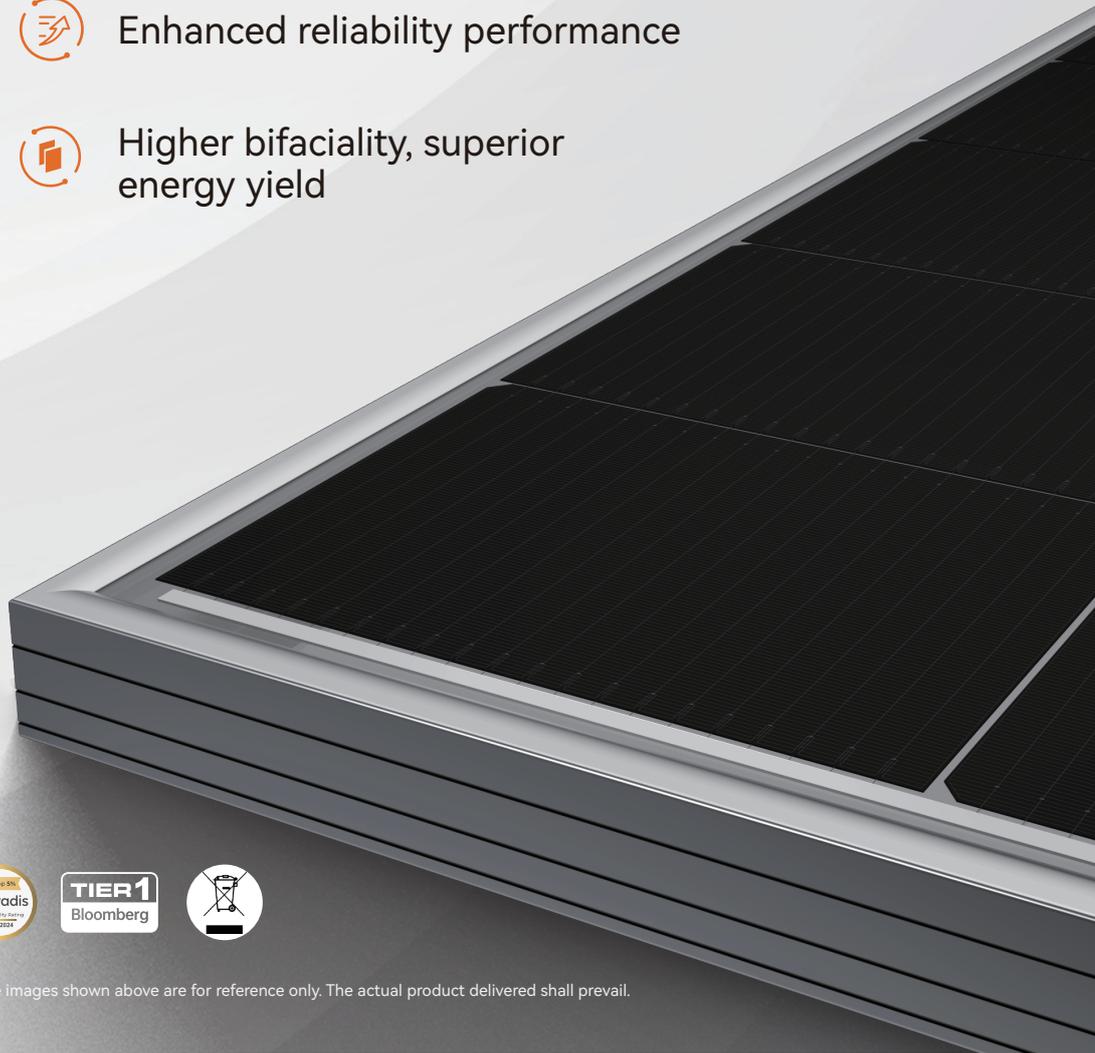
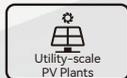
## N-type Half-cell Bifacial Module (66)

TWMNH-66HD

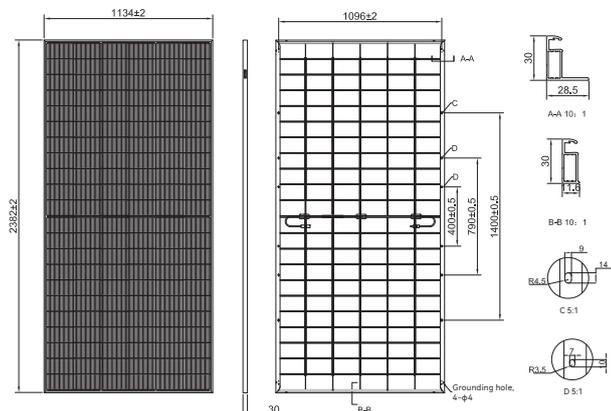


-  Higher power generation, lower LCOE
-  Higher power output, higher conversion efficiency
-  Enhanced reliability performance
-  Higher bifaciality, superior energy yield

635-655W



### Drawings (Unit: mm)



### Mechanical Parameters

Cell Type	TNC
Cell Orientation	132 [6×22]
Dimension	2382±2×1134±2×30mm
Weight	32.2kg
Front Glass	2.0 mm AR coating semi tempered glass
Rear Glass	2.0 mm semi tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0mm <sup>2</sup>
Cable Length	+400 mm, -200 mm or ±1,400 mm; length can be customized
Maximum Static Test Load	5,400 Pa (front) / 2,400 Pa (rear)
Packaging (Per pallet)	36 pcs
Packaging	720 pcs per 40'HC

### Electrical Characteristics (STC)

Module type: TWMNH-66HDXXX

Maximum Power: Pmax [W]	635	640	645	650	655
Open Circuit Voltage: Voc [V]	49.60	49.75	49.85	50.00	50.15
Short Circuit Current: Isc [A]	16.26	16.33	16.39	16.45	16.52
Voltage at Maximum Power: Vmp [V]	41.24	41.38	41.51	41.65	41.78
Current at Maximum Power: Imp [A]	15.40	15.47	15.54	15.61	15.68
Module Efficiency: η [%]	23.5	23.7	23.9	24.1	24.2

\*STC: Irradiance = 1,000 W/m<sup>2</sup>; Cell temperature = 25°C; AM = 1.5, Power measurement tolerance: ±3%

### Electrical characteristics with different rear side power gain

5%	Maximum Power:Pmax [W]	666	672	677	682	687
	Efficiency:η [%]	24.7	24.9	25.1	25.2	25.4
15%	Maximum Power:Pmax [W]	730	736	741	747	753
	Efficiency:η [%]	27.0	27.2	27.4	27.7	27.9
25%	Maximum Power:Pmax [W]	793	800	806	812	818
	Efficiency:η [%]	29.4	29.6	29.8	30.1	30.3

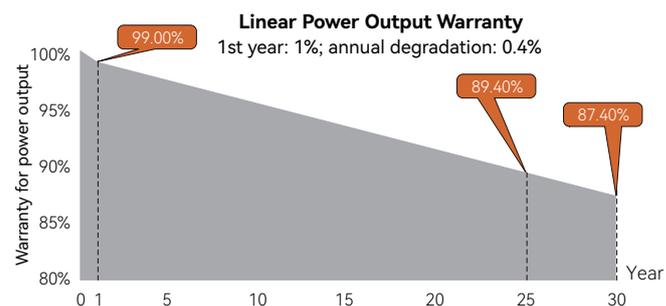
### Temperature Rating

Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C

### Operating Parameters

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+3%
Bifaciality	80±5%

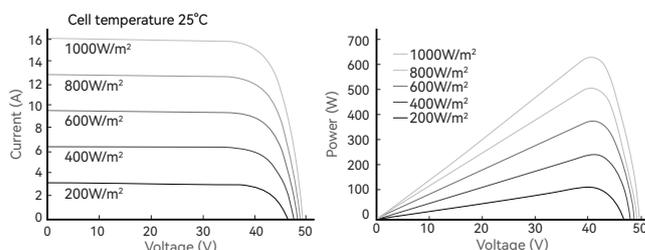
### Warranty



**12** 12-Year Material and Workmanship Warranty

**30** 30-Year Linear Power Output Warranty

### Curve



### Certifications

#### Quality Management System and Product Certification

ISO9001:2015/Quality Management System  
 ISO14001:2015/Environmental Management System  
 ISO45001:2018/Occupational Health and Safety Management System  
 ISO50001:2018 / Energy Management System  
 EC62941:2019 / Quality System for PV Module Manufacturing  
 IEC 61215 / IEC 61730, IEC TS 62804,  
 IEC 61701, IEC 62716, IEC 60068-2-68



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