

## STT-UHLDD144 Series

16BB HALF-CELL N-Type TOPCon Bifacial Double Glass Monocrystalline PV Module

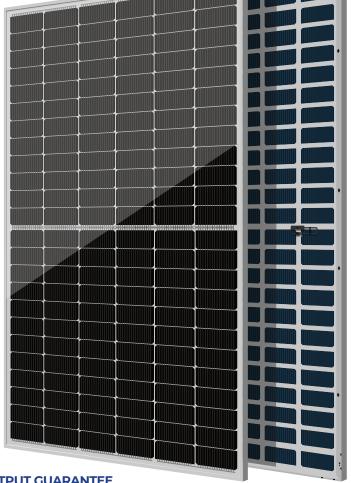
# 565-595W **POWER RANGE**

23.03%

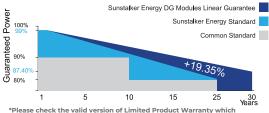
0.40%

**MAXIMUM EFFICIENCY** 

**YEARLY DEGRADATION** 







\*Please check the valid version of Limited Product Warranty which is officially released by SUNSTALKER ENERJI A.S.

IEC 61215/IEC 61730/IEC 61701/IEC 62716/IEC TS 63342/IEC 60068/PPP 58042

ISO 14001: Environmental Management System

ISO 9001: Quality Management System

ISO45001: Occupational Health and Safety Management System

\*As there are different certification requirements in different markets. Please contact your local Sunstalker sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

### **Key Features**



### **Excellent Cells Efficiency**

SMBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



### Bifacial Technology

Up to 25% additional power gain from back side depending on albedo.



### **Better Weak Illumination Response**

More power output in weak light condition, such as haze, cloudy, and early morning.



### **Adapt To Harsh Outdoor Environment**

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



### **Excellent Quality Managerment System**

Warranted reliability and stringent quality assurances well beyond certified requirements.





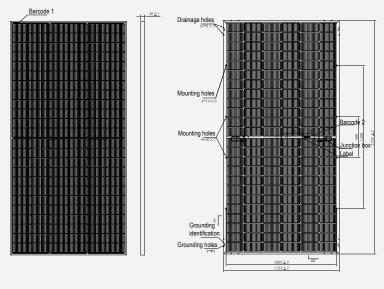


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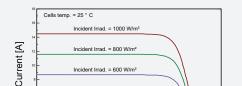
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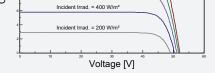
### **DIMENSIONS OF PV MODULE(mm)**



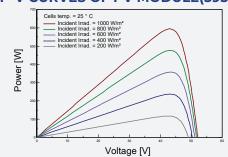




I-V CURVES OF PV MODULE(595W)



### P-V CURVES OF PV MODULE(595W)



**Back View** 

### **ELECTRICAL CHARACTERISTICS | STC\***

Nominal Power Watt Pmax(W)*	565	570	575	580	585	590	595
Maximum Power Voltage Vmp(V)	42.20	42.40	42.60	42.80	43.00	43.20	43.40
Maximum Power Current Imp(A)	13.39	13.45	13.50	13.56	13.61	13.66	13.71
Open Circuit Voltage Voc(V)	50.90	51.10	51.30	51.50	51.70	51.90	52.10
Short Circuit Current Isc(A)	14.17	14.23	14.29	14.35	14.41	14.46	14.51
Module Efficiency (%)	21.87	22.07	22.26	22.45	22.65	22.84	23.03

<sup>\*</sup>The data above is for reference only and the actual data is in accordance with the pratical testing

### **MECHANICAL DATA**

Solar cells	N-type Monocrystalline
Cells orientation	144 (6×24)
Module dimension	2278×1134×30 mm (With Frame)
Weight	31.5±1.0 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm², 350 mm (With Connectors)
Connectors*	MC4-compatible

<sup>\*</sup>Please refer to regional datasheet for specified connector

### ELECTRICAL CHARACTERISTICS | NMOT\*

Maximum Power Pmax(Wp)	426.40	430.30	433.90	437.80	441.40	447.10	450.80
Maximum Power Voltage Vmp(V)	39.70	39.90	40.00	40.20	40.40	40.40	40.60
Maximum Power Current Imp(A)	10.74	10.79	10.83	10.88	10.93	11.07	11.11
Open Circuit Voltage Voc(V)	48.00	48.20	48.40	48.60	48.80	49.00	49.20
Short Circuit Current Isc(A)	11.44	11.48	11.53	11.58	11.63	11.67	11.71
*NMOT:Irradiance 800W/m², Ambient Ter	mperatui	re 20°C. A	M 1.5.Win	d Speed 1	lm/s		

### **TEMPERATURE RATINGS**

### WORKING CONDITIONS

NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	(-0.30±0.03)%/°C	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.25%/℃	Maximum series fuse	30 A
Temperature coefficient of Isc	0.046%/℃	Front Side Maximum Static Loadin	g <b>Up to 5400Pa</b>
Refer.Bifacial Factor *Remark:Do not connect Fuse in Combiner	(80±10)% Box with two or more:	Rear Side Maximum Static Loadin strings in parallel connection	g Up to 2400Pa

36

720

### ELECTRICAL CHARACTERISTICS WITH 25% REAR SIDE POWER GAIN\* PACKAGING CONFIGURATION\*

Front power Pmax/W 565 570 575 580 585 590 5	
Front power Finax/ W 303 370 373 380 363 390 3	95
Total power Pmax/W 706 713 719 725 731 738 7	44
Vmp/V(Total) 42.30 42.50 42.70 42.90 43.10 43.30 43.30 43.30	3.50
Imp/A(Total) 16.70 16.76 16.83 16.90 16.97 17.03 15	7.10
Voc/V(Total) 51.00 51.20 51.40 51.60 51.80 52.00	2.20
Isc/A(Total) 17.67 17.74 17.82 17.88 17.96 18.03 18	3.10

Piece/Container(40'HQ)

Piece/Box

\*Customized packaging is available upon request.

\*Remark: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.

\*Caution:Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

Front View

<sup>\*</sup>Remark: customized frame color and cable length available upon request

<sup>\*</sup>STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5
\*Measuring uncertainity: +3%, all the electrical characteristics such as Power, Im, Vm and FF are

<sup>\*</sup>Measuring uncertainity: +3%, all the electrical characteristics such as I within +3% tolerance.

Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.