

BISTAR

тр7f78м тр7f78м(н) **156-cell**

580 - 600W 10BB Half-cut Mono Perc

SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems



PERFORMANCE WARRANTY



KEY FEATURES



10BB Half-cut Cell Technology

New circuit design, lower internal current, lower Rs loss Ga dopped wafer, attenuation $<\!2\%$ (1st year) / $\le\!0.55\%$ (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

PID

Excellent Anti-PID Performance 2 times of industry standard Anti-PID test



IP68 Junction Box High waterproof level

₩www.talesun.com
Marketing.hq@talesun.com
* GL-EN-Version 2024.03.22

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT								
Maximum Power (Pmax/W)	580	432	585	436	590	439	595	443	600	447
Operating Voltage (Vmpp/V)	44.97	41.9	45.11	42.1	45.25	42.2	45.39	42.3	45.53	42.5
Operating Current (Impp/A)	12.90	10.30	12.97	10.35	13.04	10.41	13.11	10.46	13.18	10.52
Open-Circuit Voltage (Voc/V)	53.59	50.4	53.73	50.6	53.87	50.7	54.01	50.8	54.15	51.0
Short-Circuit Current (Isc/A)	13.79	11.12	13.86	11.17	13.93	11.23	14.00	11.28	14.07	11.34
Module Efficiency (%)	20	.70	20	.90	21	.10	21	.30	21	.50

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3% NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon (10Busbar)		
No. of Cells	156pcs in series (6*26)		
Module Dimensions	2465*1134*35mm (97.05*44.65*1.38inches)		
Weight	31.5kg (69.45lbs.)		
Front Glass	3.2mm AR Coating Tempered Glass		
Frame	Anodized Aluminium Alloy		
Junction Box	IP68, 3 Bypass Diodes		
Output Cables	4mm ² (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length		
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02		

APPLICATION CONDITIONS

Maximun System Voltage	1000V/1500V/DC
Operating Temperature	-40°C~+85°C
Maximun Series Fuse	25A
Safety Protection Class	Class II
Mechanical Load (Front side)	5400Pa
Mechanical Load (Back side)	2400Pa

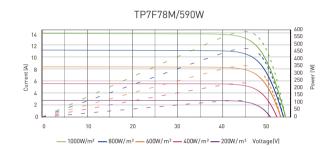
TEMPERATURE CHARACTERISTICS

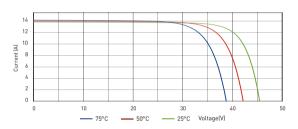
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.048%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

PACKING CONFIGURATION

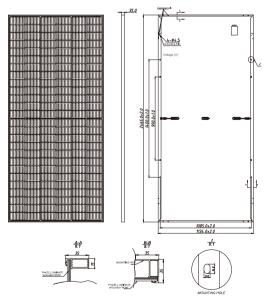
Pieces Per Pallet	31	31(USA)
Pieces Per Container(40'HQ)	496	496

I-V CURVE





TECHNICAL DRAWINGS





The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Suzhou Talesun Solar Technologies Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.