

BISTAR

тм7f54м(н) 108-cell

415 - 435W 16BB Half-cut Mono N-type



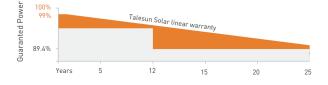
- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems



PERFORMANCE WARRANTY



Linear Performance Warranty Standard Performance Warranty



KEY FEATURES



16BB Half-cut Cell Technology

New circuit design, lower internal current, lower Rs loss P dopped wafer, attenuation <1% (1st year) / \leq 0.4% (Linear)



Significantly Lower the Risk of Hot Spot

Special circuit design with much lower hot spot temperature



Lower LCOE 3% more power generation, lower LCOE



IP68 Junction Box High waterproof level

www.talesun.com
marketing.hq@talesun.com
* GL-EN-Version 2023.11.22
* Made in China

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT								
Maximum Power (Pmax/W)	415	312	420	315	425	319	430	323	435	327
Operating Voltage (Vmpp/V)	31.33	29.80	31.51	29.90	31.70	30.10	31.88	30.30	32.06	30.50
Operating Current (Impp/A)	13.25	10.47	13.33	10.53	13.41	10.60	13.49	10.66	14.31	10.72
Open-Circuit Voltage (Voc/V)	37.92	36.00	38.11	36.20	38.30	36.30	38.49	36.50	38.68	36.70
Short-Circuit Current (Isc/A)	13.99	11.27	14.07	11.34	14.15	11.40	14.23	11.47	14.31	11.54
Module Efficiency (%)	21.	26	21.	51	21.	77	22	.02	22	.28

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	N-type Mono-Crystallin (16Busbar)		
No. of Cells	108pcs in series (6*18)		
Module Dimensions	1722*1134*30mm (67.80*44.65*1.18inches)		
Weight	21.5kg (47.40lbs.)		
Front Glass	3.2mm AR Coating Tempered Glass		
Frame	Anodized Aluminium Alloy		
Junction Box	IP68, 3 Bypass Diodes		
Output Cables	4mm² (IEC), 12AWG(UL) 300mm in Length or Customized Length		
Connectors	T01/LJQ-3-CSY/PV-KST4&PV-KBT4 PV-KST4-EV02&PV-KBT4-EV02		

APPLICATION CONDITIONS

Maximun System Voltage	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
Fire Class Rating	Class C

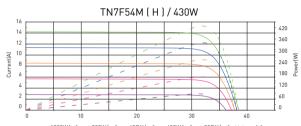
TEMPERATURE CHARACTERISTICS

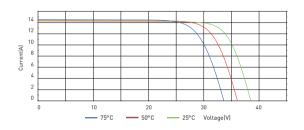
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

PACKING CONFIGURATION

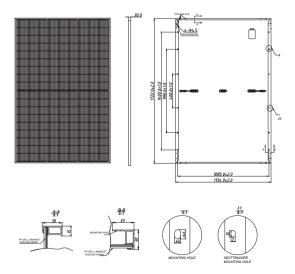
Pieces Per Pallet	36	36(USA)
Pieces Per Container(40'HQ)	936	828

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.