

Talesun

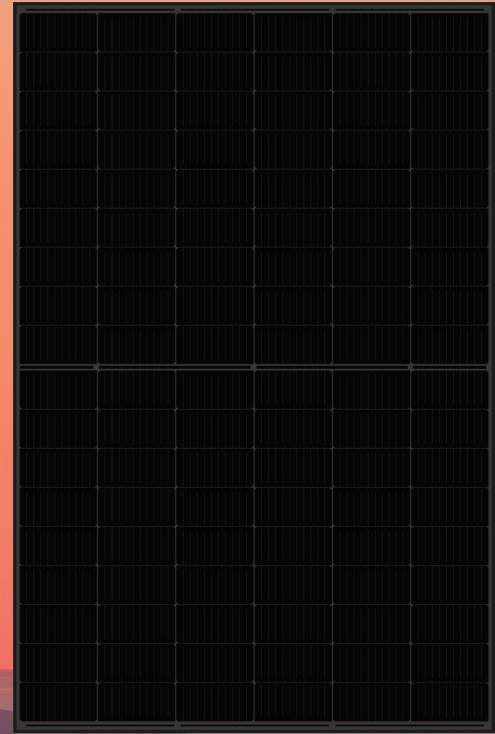


Made in USA

BISTAR

TP7F54M(H) **108-cell**

400 - 410W
Full Black



SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 17130
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

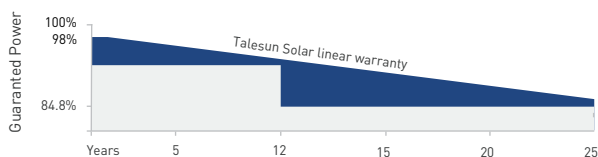


PERFORMANCE WARRANTY

12 Years
Quality
Assurance

25 Years
Power Output
Guarantee

Linear Performance Warranty



KEY FEATURES



10BB Half-cut Cell Technology

New circuit design, lower internal current, lower Rs loss
Ga doped wafer, attenuation $\leq 2\%$ (1st year) / $\leq 0.55\%$ (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



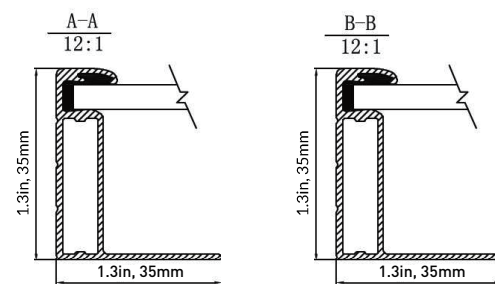
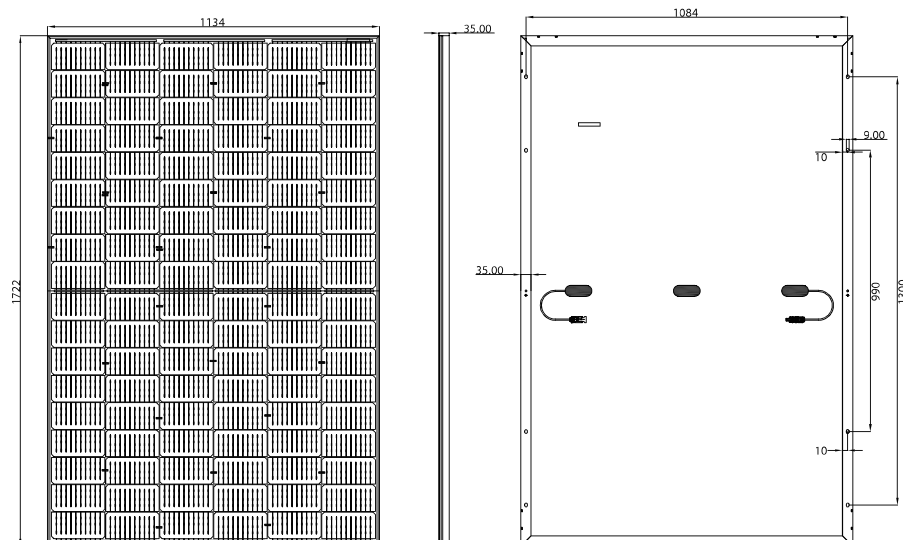
IP68 Junction Box

High waterproof level

www.talesun.com/en

sales@talesun.com

* GL-EN-Version 2026.03.25



Electrical Specifications	400W		405W		410W	
	STC	NOCT	STC	NOCT	STC	NOCT
Rated Output P_{mpp} (W)	400W	299W	405W	303W	410W	307W
Open Circuit Voltage V_{oc} (V)	37.18	35.10	37.33	35.19	37.68	35.27
Short Circuit Current I_{sc} (A)	13.39	11.99	13.44	12.11	13.59	12.23
Rated Voltage V_{mp} (V)	31.42	28.78	31.55	28.85	31.84	28.92
Rated Current I_{max} (A)	12.74	10.40	12.84	10.50	12.88	10.61
Module Efficiency	20.47%		20.74%		21.00%	

STC for front-face of panel: 1000 W/m², 25°C, measurement uncertainty ±3%
NOCT for front-face of panel: 800W/m², 45°C, Wind speed 1 m/s

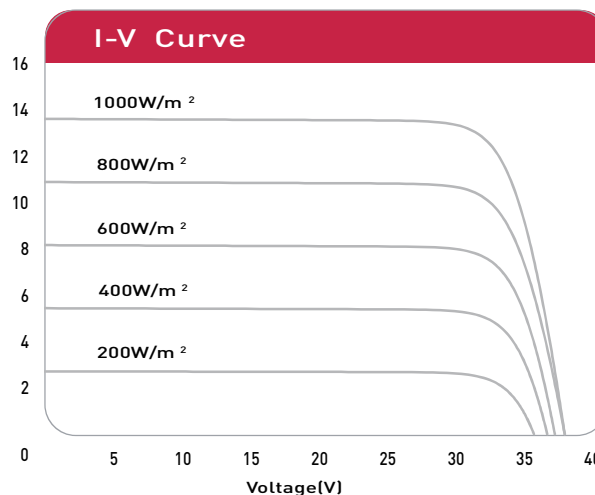
Mechanical Properties	
Cell Type	SE-PERC
Glass	3.2mm, anti-reflection coating, high transmission, low iron, tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Dimensions	67.7 X 44.6 X 1.3 in, 1722 X 1134 X 35 mm
Weight	48.5lbs. (21.5kg)
Output Cable	4mm ² (EU)12AWG, 1200mm
Connector Type	Staubli EV02

Temperature Coefficients	
Temperature Coefficients P_{max}	-0.33%/°C
Temperature Coefficients I_{sc}	+0.06%/°C
Temperature Coefficients V_{oc}	-0.26%/°C
Nominal Operating Cell Temperature (NOCT)	45°C

Test Operating Conditions	
Maximum Series Fuse	30A
Maximum System Voltage	1,500 VDC (UL&IEC)
Maximum Load Capacity (Per UL 61730)*	5400 PA Snow Load / 5400 Pa Wind Load
Fire Performance Type	Type 1

*Refer to the installation manual for details

Packaging Configuration	
Number of Modules per Pallet	31
Number of Pallets per 40ft. Container	26
Pallet Dimensions	68.97 X 44.48 X 49.76 in, 1752 X 1130 X 1264 mm
Pallet Weight (lbs)	1503.5
Modules per 40ft. Container	806



Domestic Content : Rooftop		
	MLPE	String (Fixed)
Junction Box		
Encapsulant	7	8.8
Backsheet/Backglass		