

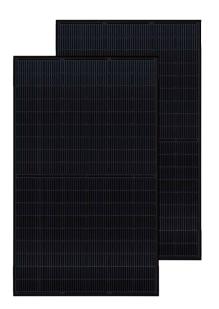
# **BISTAR**

TP7F54M TP7F54M(H)

108 half-cell

390 - 410W

10BB half-cut mono perc full black



#### **KEY FEATURES**



### 10BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss Ga dopped wafer, attenuation < 2% (1st year) / ≤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 by TUV SUD



#### IP68 junction box

High waterproof level

#### **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







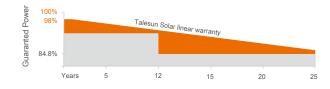
#### PERFORMANCE WARRANTY







Standard Performance Warranty



ELECTRICAL PARAMETERS					
Performance at STC (Power Tolerance 0 ~ +3%)					
Maximum Power (Pmax/W)	390	395	400	405	410
Operating Voltage (Vmpp/V)	30.65	30.85	31.05	31.24	31.43
Operating Current (Impp/A)	12.73	12.81	12.89	12.97	13.05
Open-Circuit Voltage (Voc/V)	36.50	36.75	37.00	37.25	37.50
Short-Circuit Current (Isc/A)	13.61	13.69	13.78	13.86	13.94
Module Efficiency ηm(%)	20.0	20.2	20.5	20.7	21.0
Performance at NMOT					
Maximum Power (Pmax/W)	291	294	298	302	306
Operating Voltage (Vmpp/V)	28.6	28.8	29.0	29.2	29.3
Operating Current (Impp/A)	10.18	10.23	10.30	10.36	10.42
Open-Circuit Voltage (Voc/V)	34.4	34.6	34.8	35.1	35.3
Short-Circuit Current (Isc/A)	10.97	11.04	11.11	11.17	11.24

MECHA	CDECI	FICATION

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

Cell Type	Monocrystalline
Cell Dimensions	182*182mm
Cell Arrangement	108 (6*18)
Weight	21.5kg (47.4lbs.)
Module Dimensions	1722*1134*30mm (67.80*44.65*1.18inches)
Cable Length	300mm (11.81inches)
Cable Cross Section Size	TUV: 4mm² (0.006inches²)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3
Packing Configuration (1)	36pcs/carton, 936pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

# **OPERATING CONDITIONS**

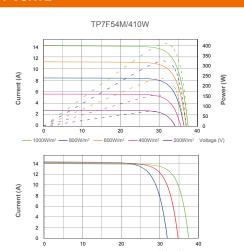
Maximun System Voltage	1000V/1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

#### **TEMPERATURE COEFFICIENT**

Temperature Coefficient Pmax	-0.35%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.048%/°C
NMOT	43±2°C

# I-V CURVE

NMOT: Irradiance at 800W/m², Ambient Temperatue 20°C, Air Mass AM1.5, Wind Speed 1m/s



# **TECHNICAL DRAWINGS**

