

TP7F54M(H) **108-ce**

395 - 415W

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





Linear Performance Warranty

KEY FEATURES



10BB Ha -c Ce Tec

New circuit design, lower internal current, lower Rs loss Ga dopped wafer, attenuation < 2% [1st year] / 0.55% [Linear]





L e LCOE

2% more power generation, lower LCOE



E ce e A -PID Pe

a ce

860 -0 c1160

2 times of industry standard Anti-PID test



IP68 J c B

High waterproof level

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT								
Maximum Power (Pmax/W)	395	294	400	298	405	302	410	306	415	310
Operating Voltage (Vmpp/V)	30.85	28.8	31.05	29.0	31.24	29.2	31.43	29.3	31.64	29.6
Operating Current (Impp/A)	12.81	10.23	12.89	10.30	12.97	10.36	13.05	10.42	13.13	10.48
Open-Circuit Voltage (Voc/V)	36.75	34.6	37.00	34.8	37.25	35.1	37.50	35.3	37.75	35.5
Short-Circuit Current (Isc/A)	13.69	11.04	13.78	11.11	13.86	11.17	13.94	11.24	14.02	11.30
Module Efficiency (%)	20.	20	20.	.50	20.	.70	21	.00	21	.30

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

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon (10Busbar)		
No. of Cells	108pcs in series (6*18)		
Module Dimensions	1722*1134*30mm (67.80*44.65*1.18inches)		
Weight	21.5kg (47.4lbs.)		
Front Glass	3.2mm AR Coating Tempered Glass		
Frame	Anodized Aluminium Alloy		
Junction Box	IP68, 3 Bypass Diodes		
Output Cables	4mm² (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		

TEMPERATURE CHARACTERISTICS

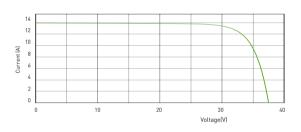
Temperature Coefficient of Pmax	-0.35%/°C		
Temperature Coefficient of Voc	-0.26%/°C		
Temperature Coefficient of Isc	+0.048%/°C		
Nominal Module Operating Temperature(NMOT)	43±2°C		

PACKING CONFIGURATION

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

I-V CURVE





TECHNICAL DRAWINGS

