



TP7F54M
 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

12 Years
Quality Assurance

2 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 < 2% (1st year) / 0.55% (Linear)



Higher LCOE
 2% more power generation, lower LCOE



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



IP68 Junction Box
 High waterproof level



ELECTRICAL CHARACTERISTICS

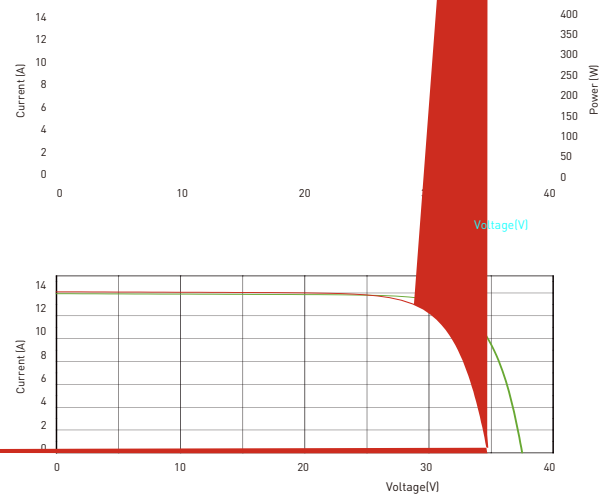
| Testing Condition | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 395 | 294 | 400 | 298 | 405 | 302 | 410 | 306 | 415 | 310 |
| Operating Voltage (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 | | 30 | |

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25 . Power output tolerance: 0~+5W, Test uncertainty for Pmax : ±6
 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 | 4mm ² (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length |
| Connectors | T01/LJQ-3-CSY/MC4/MC4-EV02 |

I-V CURVE



APPLICATION CONDITIONS

| | |
|-------------------------|----------------|
| Maximum System Voltage | 1000V/1500V/DC |
| Operating Temperature | -40°C~+85°C |
| Maximum Series Fuse | 25A |
| Safety Protection Class | Class |
| | |
| | |

TECHNICAL DRAWINGS

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 |



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