

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

UL LISTED



PERFORMANCE WARRANTY

KEY FEATURES



12BB Half-cut Cell Technology

New circuit design, lower internal current, lower R_s loss
Ga doped wafer, attenuation $< 2\%$ (1st year) / $\leq 0.45\%$ (Linear)



Industry Leading High Yield

Bifacial PERC cell technology,
5%-25% more yield depends on different conditions



Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



Wider Application

No water-permeability and high wear-resistance,
can be widely used in high-humid, windy and dusty area



IP68 Junction Box

High waterproof level

ELECTRICAL CHARACTERISTICS

| Testing Condition | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (P _{ma} /W) | 585 | 437 | 590 | 441 | 595 | 444 | 600 | 448 | 605 | 452 |
| Operating Voltage (V _{mpp} /V) | 34.1 | 32.0 | 34.3 | 32.2 | 34.5 | 32.4 | 34.7 | 32.6 | 34.9 | 32.7 |
| Operating Current (I _{mpp} /A) | 17.16 | 13.65 | 17.21 | 13.69 | 17.25 | 13.72 | 17.30 | 13.77 | 17.34 | 13.80 |
| Open-Circuit Voltage (V _{oc} /V) | 41.0 | 38.7 | 41.2 | 38.9 | 41.4 | 39.1 | 41.6 | 39.3 | 41.8 | 39.4 |
| Short-Circuit Current (I _{sc} /A) | 18.25 | 14.72 | 18.30 | 14.75 | 18.34 | 14.78 | 18.39 | 14.82 | 18.43 | 14.85 |
| Module Efficiency (%) | 20.70 | | 20.80 | | 21.00 | | 21.20 | | 21.40 | |

STC: Irradiance 1000W/m², Spec. a a AM1.5, Module Temperature 25°C, Power loss coefficient: 0 +5W, Temperature coefficient P_{ma}: -0.3%
 NMOT: Irradiance 800W/m², Spec. a a AM1.5, Ambient Temperature 20°C, Wind speed 1m/s

REAR SIDE POWER GAIN(REFERENCE TO 595W FRONT)

| | | | | | |
|----------------------|-------|-------|-------|-------|-------|
| P _{ma} gain | 5% | 10% | 15% | 20% | 25% |
| P _{ma} /W | 625 | 655 | 684 | 714 | 744 |
| V _{mpp} /V | 34.50 | 34.50 | 34.50 | 34.50 | 34.50 |
| I _{mpp} /A | 18.11 | 18.98 | 19.84 | 20.70 | 21.56 |
| V _{oc} /V | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 |
| I _{sc} /A | 19.23 | 20.14 | 21.06 | 21.97 | 22.89 |

MECHANICAL CHARACTERISTICS

| | |
|------------------|---|
| Cell Type | Monocrystalline Silicon (12Busbar) |
| No. of Cell | 120pcs in series (6*20) |
| Module Dimension | 2172*1303*35mm (85.51*51.30*1.38inches) |
| Weight | 34.8kg (76.72lbs.) |
| Front Glass | 2.0mm AR Coating Semi-tempered Glass |
| Back Glass | 2.0mm Glazed Semi-tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68, 3 Bypass Diodes |
| Opt. Cable | 4mm ² (IEC), 12AWG(UL) 300mm in Length or Customized Length |
| Connection | T01/LJQ-3-CSY/MC4/MC4-EV02 |

APPLICATION CONDITIONS

| | |
|----------------------------|-------------------------------------|
| Maximum System Voltage | 1500V/DC |
| Operating Temperature | -40°C~+85°C |
| Maximum System Current | 35A |
| Safe Power Operation Class | Class II |
| Mechanical Load | Front side 5400Pa, Back side 2400Pa |
| Relative Humidity | 70%±5% |

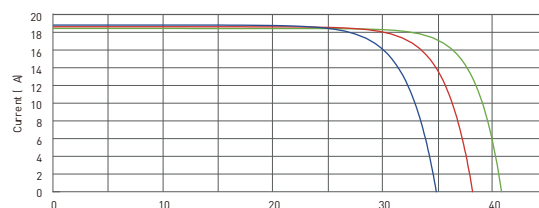
TEMPERATURE CHARACTERISTICS

| | |
|---|------------|
| Temperature Coefficient of P _{ma} | -0.34%/°C |
| Temperature Coefficient of V _{oc} | -0.25%/°C |
| Temperature Coefficient of I _{sc} | +0.046%/°C |
| Nominal Module Operating Temperature (NMOT) | 43±2°C |

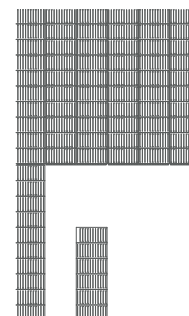
PACKING CONFIGURATION

| | | |
|------------------------------|-----|---------|
| Pieces per Pallet | 31 | 31(USA) |
| Pieces per Container (40 HQ) | 527 | 527 |

I-V CURVE



TECHNICAL DRAWINGS



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