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KEY FEATURES



10BB Half-cut Cell Technology

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

ELECTRICAL CHARACTERISTICS

| Testing Condition | STC | NMOT |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 440 | 328 | 445 | 332 | 450 | 336 | 455 | 339 | 460 | 343 |
| Operating Voltage (Vmpp/V) | 34.35 | 32.1 | 34.53 | 32.2 | 34.70 | 32.4 | 34.87 | 32.6 | 35.04 | 32.7 |
| Operating Current (Impp/A) | 12.81 | 10.23 | 12.89 | 10.30 | 12.97 | 10.36 | 13.05 | 10.42 | 13.13 | 10.49 |
| Open-Circuit Voltage (Voc/V) | 40.99 | 38.6 | 41.16 | 38.7 | 41.33 | 38.9 | 41.50 | 39.1 | 41.67 | 39.2 |
| 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. | 30 | 20. | 50 | 20. | .70 | 21 | .00 | 21 | .20 |

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

REAR SIDE POWER GAIN(REFERENCE TO 445W FRONT)

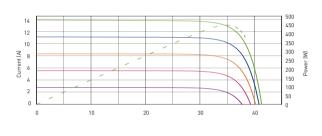
| Pmax gain | 5% | 10% | 15% | 20% | 25% |
|-----------|-------|-------|-------|-------|-------|
| Pmax/W | 467 | 490 | 512 | 534 | 556 |
| Vmpp/V | 34.53 | 34.53 | 34.53 | 34.53 | 34.53 |
| Impp/A | 13.53 | 14.18 | 14.82 | 15.47 | 16.11 |
| Voc/V | 41.16 | 41.16 | 41.16 | 41.16 | 41.16 |
| Isc/A | 14.47 | 15.16 | 15.85 | 16.54 | 17.23 |

MECHANICAL CHARACTERISTICS

| Cell Туре | Monocrystalline Silicon (10Busbar) | | |
|-------------------|---|--|--|
| No. of Cells | 120pcs in series (6*20) | | |
| Module Dimensions | 1914*1134*30mm (75.35*44.65*1.18inches) | | |
| Weight | 26.8kg (59.1lbs) | | |
| 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 | | |
| Output Cables | 4mm ² (IEC), 12AWG(UL) 300mm in Length or Customized Length | | |
| Connectors | T01/LJQ-3-CSY/MC4/MC4-EV02 | | |

I-V CURVE

Current [A]



APPLICATION CONDITIONS

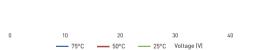
| Maximun System Voltage | 1500V/DC | | |
|---------------------------|-------------------------------------|--|--|
| Operating Temperature | -40°C~+85°C | | |
| Maximun Series Fuse | 30A | | |
| Safety Protection Class | Class II | | |
| Mechanical Load | Front side 5400Pa, Back side 2400Pa | | |
| Refer. Bifaciality Factor | 70%±5% | | |

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) | 864 | 684 |



TECHNICAL DRAWINGS



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