**1975x992x40 Module Technical Data**

1. **Drawing of monocrystalline 380M72**

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**二、Technical parameters for modules：：**

1、Monocrystalline -380M72

| No. | Parts | Unit | Monocrystalline numerical value |
| --- | --- | --- | --- |
| 1 | Module data | W | 380W |
| 1.1 | Manufacturer/Model No. |  | Mono -380M72 |
| 1.2 | Peak power | W | 390 |
| 1.3 | Power tolerance | W | 0-5 |
| 1.4 | Module conversion efficiency | % | ≥19.7 |
| 1.5 | Open circuit voltage | V | 47.50 |
| 1.6 | Short circuit current | A | 11.04 |
| 1.7 | Operating voltage | V | 38.67 |
| 1.8 | Operating current | A | 9.85 |
| 1.9 | Series resistor | Ω | 0.5 |
| 1.10 | Filling factor | % | ≥75.00 |
| 1.11 | Module power temperature coefficient | %/K | -0.44 |
| 1.12 | Module voltage temperature coefficient | %/K | -0.33 |
| 1.13 | Module current temperature coefficient | %/K | 0.03 |
| 1.14 | Range of working temperature | ℃ | -40-85 |
| 1.15 | Working humidity | % | ≤95 |
| 1.16 | 2-year power degradation | % | ≤3.2 |
| 1.17 | 3-year power degradation | % | ≤3.9 |
| 1.18 | 4-year power degradation | % | ≤4.6 |
| 1.19 | 5-year power degradation | % | ≤5.3 |
| 1.20 | 10-year power degradation | % | ≤10 |
| 1.21 | 25-year power degradation | % | ≤20 |
| 1.22 | Hail impact resistance | m/s | 23.0 |
| 1.23 | Wind resistance | Pa | 2400 |
| 1.24 | Load | Pa | 5400 |
| 1.25 | PV module specification | mm | 1975x992x40 |
| 1.26 | Module weight | Kg | 22 |
| 1.27 | Max.System voltage | V | 1000 |
| 1.28 | Module service life | year | 25 |
| 2 | Glass data |  |  |
| 2.1 | Glass type |  | Low iron suede ultra white tempered coated glass |
| 2.2 | Glass thickness | mm | 3.2 |
| 2.3 | Transmittance | % | ＞91.5 |
| 3 | Cell data |  |  |
| 3.1 | Cell voltage | Wp | ≥5.55 |
| 3.2 | Conversion ratio | % | ≥22.3 |
| 3.3 | Minority carrier lifetime | μs  | ≥2 |
| 3.4 | Oxygen concentration | atoms/cm3 | ≤1×1018 |
| 3.5 | Carbon concentration | atoms/cm3 | ≤5×1017 |
| 3.6 | Cell size | mm | 158\*158 |
| 4 | EVA data |  |  |
| 4.1 | Density | g/cm2 | ≥0.96 |
| 4.2 | Cross-linking degree | % | ≥80 |
| 4.3 | Tensile strength | MPa | ≥16 |
| 4.3 | Peel strength of glass | N/cm2 | ≥60 |
| 4.4 | Peel strength of backboard | N/cm2 | ≥40 |
| 5 | Backboard data |  |  |
| 5.1 | Backboard structure type |  | Composite structure backboard |
| 5.2 | Thickness | mm | 0.35 |
| 5.3 | Delamination peel strength | N/cm | ≥4 |
| 5.4 | Water vapor transmission | g/㎡d | ≤2 |
| 6 | Junction box data |  |  |
| 6.1 | Max. load operating current | A | 15 |
| 6.2 | Max. Withstand voltage | V | 1000 |
| 6.3 | Service temperature | ℃ | -40-85 |
| 6.4 | Max. Working humidity | % | ≤95 |
| 6.5 | Protection degree |  | IP65 and above |
| 6.6 | Cable specification *φ* | mm | 1x4mm² Length 1000mm |

**三、Module I-V diagream：**

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