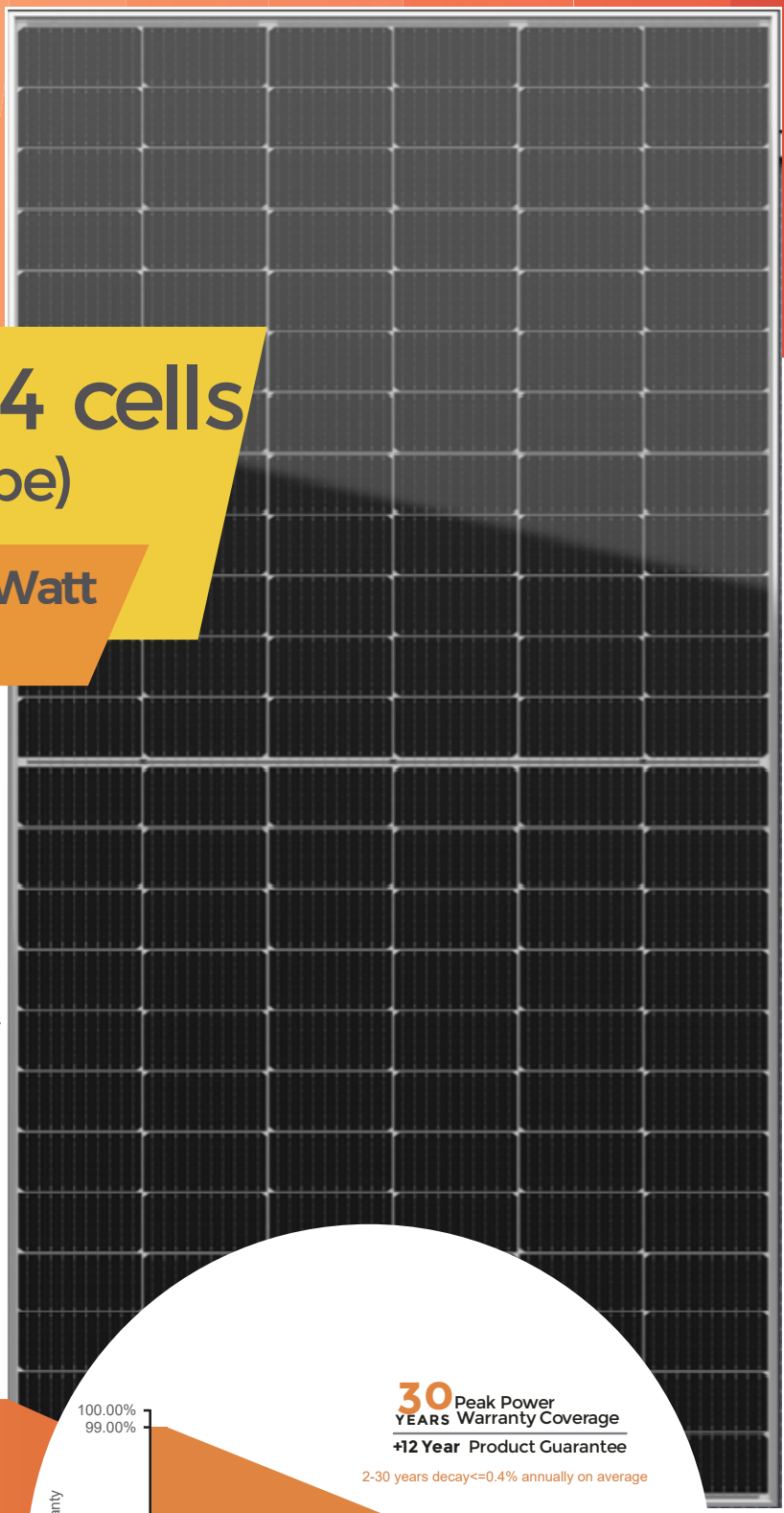
Upsolar

# M10 | Bifacial 144 cells (glass-glass type)



Power Output (STC) : **570 - 590 Watt**
Max. Efficiency (STC): **22.9%**

### High Mechanical Load
Certified to withstand high wind and snow loads up to 5400Pa

### Enhanced Performances
Bifacial feature allows a power boost up to 20% vs monofacial

### Lower LCOE
Higher power output over the long term increases projects ROI

### Excellent Low-Light Performance
Tier 1 certified solar cells allows better performance in low-light environments

### Ideal for Large Scale Installations
Lower installations time and BOS (Balance of Systems) costs

### Salt Mist and Ammonia Resistant
Certified by Bureau Veritas to withstand usage near coastal environments

### PID resistant
Designed to minimise cell degradation in extreme environments

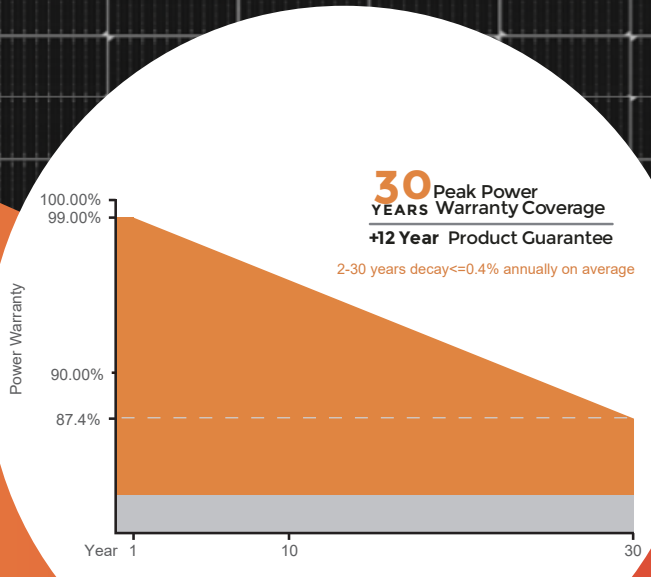
IEC 61215 61730 | cULus CEC listed UL 1703 | CE | TÜV | Bureau Veritas | Intertek

# Secure Investment

Upsolar provides exceptional product coverage for all modules to ensure our customers achieve superior long-term value from their solar installations. To further improve our product warranty, which covers unanticipated module damage, we've recently expanded our terms from a 10-year period to a 12-year period.

In addition, Upsolar offers a 30-year performance guarantee known as the Linear Module Warranty. Whereas traditional policies
feature a single trigger point leading to drastic coverage reductions after just 10 years, Upsolar's coverage more accurately corresponds to system performance, providing coverage for over 25-years.

Overall, our goal is to deliver not only top-notch modules, but also peace of mind, for decades to come.




*Upsolar has expanded its manufacturing operations in Asia, Europe and North America, keeping its modules duty-free in the even t of new CVD or AD policies. Please ask about pricing, payment terms and conditions to meet your needs.

# Bifacial Series | TOPCON 182 144 cells

## Electrical Characteristics at STC

STC: Irradiance 1,000 W/m², Module temperature 25°C, AM=1.5

| MODEL | UP-B570MH-G (72M10) | UP-B575MH-G (72M10) | UP-B580MH-G (72M10) | UP-B585MH-G (72M10) | UP-B590MH-G (72M10) |
|---|---|---|---|---|---|
| Max Power Pm at STC (Wp) | 570 | 575 | 580 | 585 | 590 |
| Max Power Voltage Vm (V) | 42.7 | 42.9 | 43.1 | 43.3 | 43.5 |
| Max Power Current Im (A) | 13.37 | 13.41 | 13.47 | 13.53 | 13.59 |
| Open-Circuit Voltage Voc (V) | 50.9 | 51.1 | 51.3 | 51.5 | 51.7 |
| Short-Circuit Current Isc (A) | 14.23 | 14.31 | 14.39 | 14.47 | 14.55 |
| Module Efficiency (STC) | 22.1% | 22.3% | 22.5% | 22.7% | 22.9% |
| Bifacial Factor | 0.70+/-0.05 | | | | |

## Bifacial Output-rearside Power Gain

| | | | | | | |
|---|---|---|---|---|---|---|
| 5% | Max Power Pm (STC) | 588 | 593 | 599 | 604 | 609 |
| | Module Efficiency (STC) | 22.8% | 23.0% | 23.2% | 23.4% | 23.7% |
| 15% | Max Power Pm (STC) | 644 | 650 | 656 | 661 | 667 |
| | Module Efficiency (STC) | 24.9% | 25.2% | 25.4% | 25.6% | 25.8% |
| 25% | Max Power Pm (STC) | 700 | 706 | 713 | 719 | 725 |
| | Module Efficiency (STC) | 27.1% | 27.4% | 27.6% | 27.8% | 28.1% |

## Components & Additional Data

| | |
|---|---|
| Power tolerance | 0/+3% |
| Front Glass | High Transparency Tempered Glass 0.078" // 2.0 mm |
| Junction Box | IP 68 or above |
| Output Cables | 0.3m // IEC/ UL approved (4 mm², 12AWG) (PV Wire Type) |
| Connectors | MC4 compatible (IP67, IEC and UL approved) |
| Frame | Anodized aluminium alloy type 6063-T5 |
| Encapsulation Material | EVA or POE |
| Back Sheet | High Transparency Tempered Glass 0.078" // 2.0 mm |
| Temperature Range | -40˚F to +194˚F // -40˚C to +90˚C |
| Series fuse rating | 25A |
| Maximum system voltage | 1,500V (IEC/UL) |

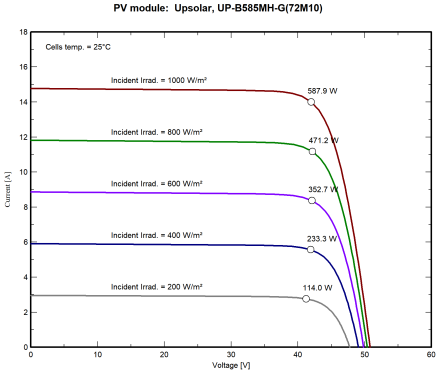
## Specifications

| | |
|---|---|
| Cells | Monocrystalline TOPCon cells 182 x 91 |
| Number of Cells | 144 (6 × 24) |
| Dimensions ( in // mm ) | 89.68 × 44.65 × 1.18 // 2278 × 1134 × 30 |
| Weight ( lb // kg ) | 70.55// 32 |

## Temperature Coefficients

| | |
|---|---|
| NMOT ( °C ) | 45 ± 2 |
| Temperature Coefficients of Isc (% / °C ) | 0.05 ± 0.01 |
| Temperature Coefficients of Voc (% / °C ) | -0.28 ± 0.02 |
| Temperature Coefficients of Im (% / °C ) | -0.02 ± 0.02 |
| Temperature Coefficients of Vm (% / °C ) | -0.42 ± 0.03 |
| Temperature Coefficients of Pm (% / °C ) | -0.35 ± 0.05 |

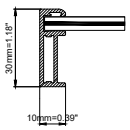
## IV Curves




## Options Available

Frameless option available

Transparent backsheet option available




Section B-B
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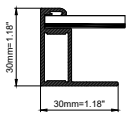


Section A-A
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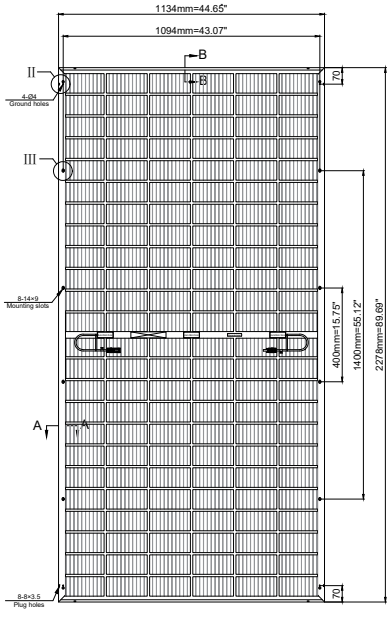


Backview