



## PV Module TITAN M6-72



**High Efficiency PV Modules**

### Strengths

- Positive power tolerance
- High Efficiency Multi Crystalline Modules
- TUV Certifications:
  - EN IEC 61215 : 2005
  - EN IEC 61730-1 : 2004 / 2007
  - EN IEC 61730-2 : 2004 / 2007
  - EN IEC 61701 : 2010-02
- Withstands heavy loading due to snow & ice; Has higher safety margin for storm weather and gale winds
- Qualified for Highly corrosive Wet-Atmospheres & Environments

**Product Guarantee :** 5 years

**Limited Power Warranty :** 90% @ 12 Years  
80% @ 25 Years

### Certifications



### Typical Electrical Characteristics

| Type                                  | TITAN M6-72 |                                      |       |       |       |       |       |       |       |       |  |
|---------------------------------------|-------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Max Power                             | Pmp (W)     | 265                                  | 270   | 275   | 280   | 285   | 290   | 295   | 300   | 305   |  |
| Power Tolerance                       | (W)         | +0 to 4.9Wp or ±2.5%                 |       |       |       |       |       |       |       |       |  |
| Max Power Voltage                     | Vmp(V)      | 34.33                                | 34.75 | 35.04 | 35.18 | 35.63 | 36.12 | 36.51 | 36.72 | 36.97 |  |
| Max Power Current                     | Imp (A)     | 7.72                                 | 7.77  | 7.85  | 7.96  | 8.00  | 8.03  | 8.08  | 8.17  | 8.25  |  |
| Open Circuit Voltage                  | Voc (V)     | 43.27                                | 43.70 | 43.99 | 44.28 | 44.42 | 44.78 | 45.00 | 45.50 | 45.58 |  |
| Short Circuit Current                 | Isc (A)     | 8.30                                 | 8.34  | 8.39  | 8.46  | 8.49  | 8.53  | 8.56  | 8.65  | 8.68  |  |
| Electrical parameters tolerance       |             | ±5%                                  |       |       |       |       |       |       |       |       |  |
| Max System Voltage                    | VDC         | 1000                                 |       |       |       |       |       |       |       |       |  |
| Number, type and arrangement of cells |             | 72, Multi-Crystalline, 12 x 6 Matrix |       |       |       |       |       |       |       |       |  |
| Cell Size                             |             | 6" x 6" / 156 x 156 mm               |       |       |       |       |       |       |       |       |  |
| No. of By-pass Diodes                 |             | 3                                    |       |       |       |       |       |       |       |       |  |
| Max Series Fuse                       | (A)         | 15                                   |       |       |       |       |       |       |       |       |  |
| Pm Temperature Co-efficient (γ)       | (%/°C)      | -0.41                                |       |       |       |       |       |       |       |       |  |
| Isc Temperature Co-efficient (α)      | (%/°C)      | +0.04                                |       |       |       |       |       |       |       |       |  |
| Voc Temperature Co-efficient (β)      | (%/°C)      | -0.32                                |       |       |       |       |       |       |       |       |  |
| NOCT at STC                           | (°C)        | 45±1                                 |       |       |       |       |       |       |       |       |  |

### Mechanical Characteristics

|                             |                                |                 |
|-----------------------------|--------------------------------|-----------------|
| Junction Box                | Tyco / ZJRH / Huber + Suhner   |                 |
| Type of connector           | Tyco / MC4                     |                 |
| Dimensions (L x W x Th)     | mm                             | 1975 x 988 x 50 |
| Weight                      | Kg                             | 27.0            |
| No. of Drain Holes in Frame | 12                             |                 |
| Glass Type and Thickness    | 4 mm Thick, Low iron, Tempered |                 |

### Packing Configuration

|                       |                           |
|-----------------------|---------------------------|
| Packing Configuration | 20 Modules in each pallet |
| 1 * 20 Ft             | 200 Modules               |
| 1 * 40 Ft STD/HQ      | 400 modules               |

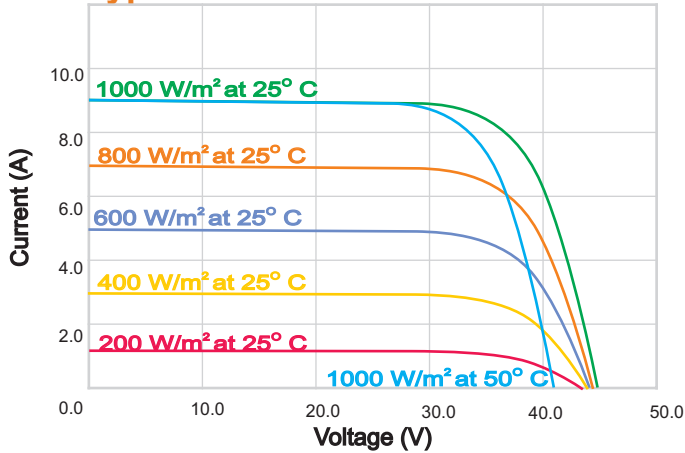
### Absolute Ratings

|                       |      |           |
|-----------------------|------|-----------|
| Operating Temperature | (°C) | -40 ~ +85 |
| Storage Temperature   | (°C) | -40 ~ +85 |

NOTE: The data presented may change due to further improvements in the product.

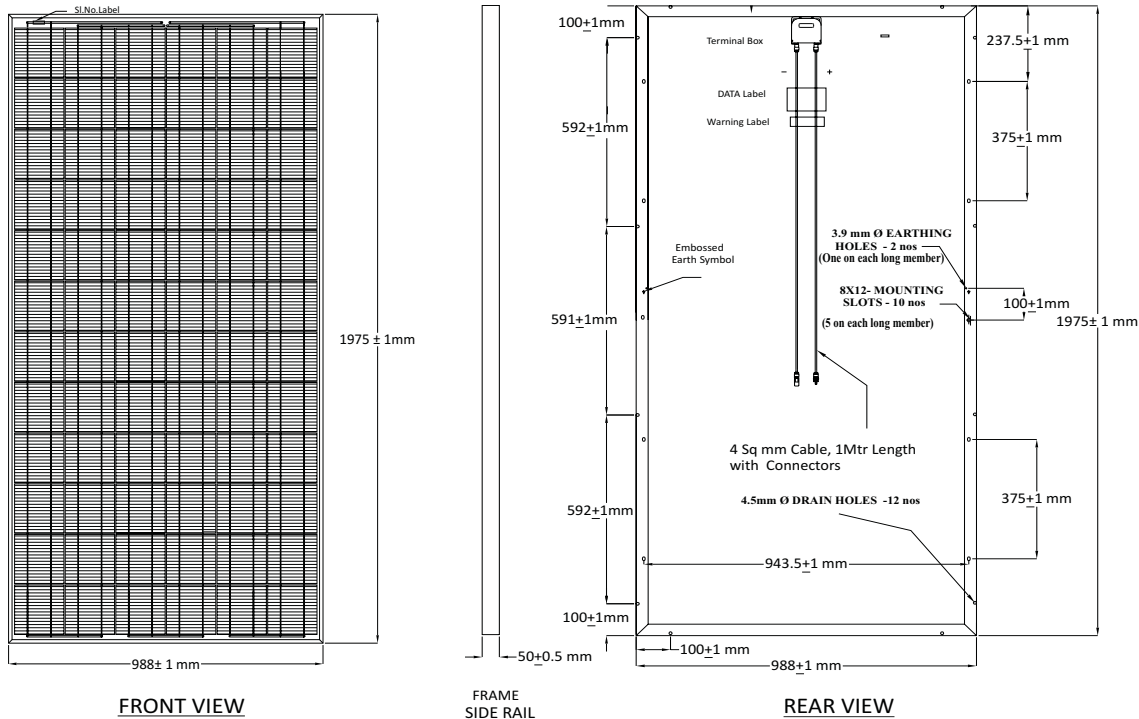
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## Typical I-V Curves



Current/voltage dependence on irradiance and module temperature. These I-V curves indicate the effect of temperature and light intensity on module Performance.

## Dimensions



## PV Module Products

- M6-72 Family Series (305Wp to 125Wp) : M6-72, M6-60, M6-54 & M6-36 - Certified for IEC Standards  
M6-60: Certified for UL (USA & Canada) Standard; M6-72: Certification for UL (USA & Canada) is in Progress
- S6-60 Family Series (250Wp to 120Wp) : S6-60, S6-54 & S6-36 - Certified for IEC Standards  
S6-60 - Certified for UL (USA & Canada) Standard
- S6-72 Family Series (300Wp to 285Wp) : Certification for IEC & UL (USA & Canada) Standards
- S5-96 Family Series (250Wp to 75Wp) : S5-96, S5-72, S5-60, S5-54 & S5-36 - Certified for IEC Standards



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