

# UNM-100A

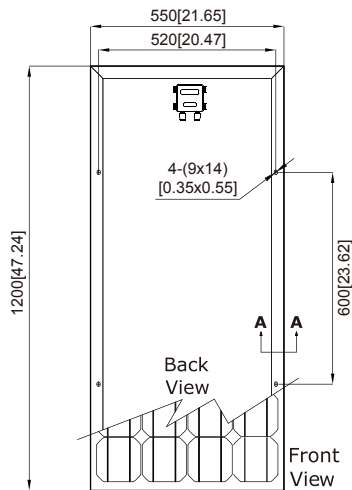
## High Efficiency, High Quality PV Module



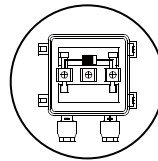
| Electrical Characteristics              | UNM-100A                                       |
|---|--|
| Maximum power (Pmax)                    | 100W   |
| Voltage at Pmax (Vmp)                   | 18.3V  |
| Current at Pmax (Imp)                   | 5.48A  |
| Open-circuit voltage (Voc)              | 22.4V  |
| Short-circuit current (Isc)             | 5.87A  |
| Temperature coefficient of Voc          | $-(0.40 \pm 0.05)\% / ^\circ\text{C}$          |
| Temperature coefficient of Isc          | $(0.065 \pm 0.01)\% / ^\circ\text{C}$          |
| Temperature coefficient of power        | $-(0.5 \pm 0.05)\% / ^\circ\text{C}$           |
| NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s) | 47±2°C   |
| Operating temperature                   | -40°C to 85°C                                  |
| Maximum system voltage                  | 600V DC  |
| Power tolerance                         | + 3%   |
| Cells                                   | monocrystalline silicon solar cell             |
| No. of cells and connections            | 36(4X9)  |
| Module Dimension                        | 1200mm[47.24in.]x550mm[21.65in.]x30mm[1.18in.] |
| Weight                                  | 7.5kg[16.53lbs]                                |

\* STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C  
 \* Specifications are subject to change without notice at any time.

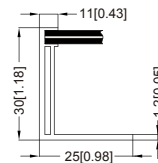
### Module Diagram



Dimensions in brackets are in inches.  
 Un-bracketed dimensions are in millimeters.  
 Unit:mm[in.]

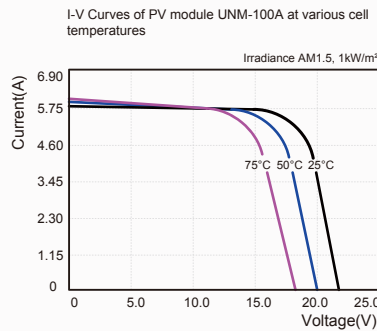
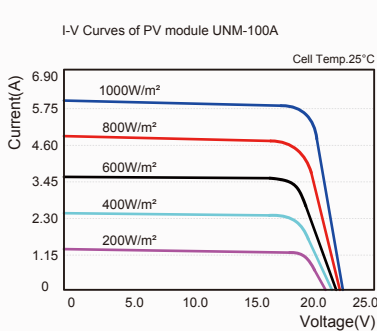


Junction Box  
 Top View (Lid open)



Section A-A

### I-V Curves



### Key Features:

- High module efficiency and stable power output
- Based on leading process technology
- Outstanding electrical performance under high temperature conditions or low irradiance conditions
- Easy of installation and all-weather applications
- 5 years product warranty(materials and workmanship)
- 20 years module power output warranty
- Peak power of single module is guaranteed in +3% power tolerance
- Strong framed module, passing loaded test of 5400 Pa (IEC61215 2nd)
- The manufacture is certified for ISO 9001:2000

### Product's Guarantee

- 5 years products life warranty
- 15 years module power output no less 90%
- 20 years module power output no less 80%

### Applications

- Off grid residential roof-tops
- Off grid commercial/industrial roof-tops
- Rural area applications
- Solar power system
- Other off-grid applications

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