



## Efficient Module

**60 pieces**

Mono-crystalline Module

**275-285W**

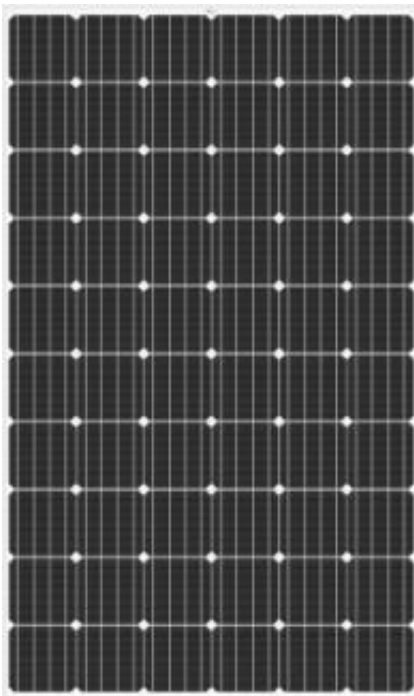
Power Output Range

**17.4%**

Maximum Efficiency

**0~+5W**

Power Tolerance



### Product Specifications Book

Maximize limited space with top-end efficiency

- Up to 180 W/m<sup>2</sup> power density
- Low thermal coefficients for greater energy production at high operating temperatures

Highly reliable due to stringent quality control

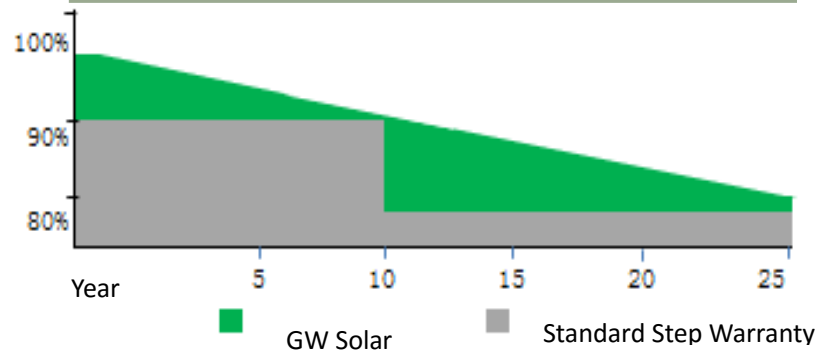
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- 100% EL double inspection

Certified to withstand challenging environmental conditions

- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

### LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty-25 Year Linear Power Warranty



### Electrical Specifications (standard test conditions)

Maximum Power -P <sub>MAX</sub> (Wp)	275	280	285
Power Tolerance -P <sub>MAX</sub> (W)	0 ~ +5%		
Maximum power point of operating voltage -P <sub>MPP</sub> (V)	31.4	31.7	31.8
Maximum power point of operating current -I <sub>MPP</sub> (A)	8.76	8.84	8.97
Open circuit voltage -V <sub>oc</sub> (V)*	38.7	39	39.3
Short circuit current -I <sub>M</sub> (A)	9.26	9.35	9.45
Module Efficiency $\eta_m$ (%)	16.8	17.1	17.4

Standard test conditions under Measured Value:( air quality AM1.5, Irradiance 1000W / m<sup>2</sup> cell temperature 25 °C)

### Electrical Index (under nominal operating cell temperature conditions)

Maximum Power -P <sub>MAX</sub> (Wp)	205	209	212
Maximum power point of operating voltage -P <sub>MPP</sub> (V)	29.2	29.4	29.6
Maximum power point of operating current -I <sub>MPP</sub> (A)	7.02	7.1	7.17
Open circuit voltage -V <sub>oc</sub> (V)*	36	36.3	36.6
Short circuit current -I <sub>M</sub> (A)	7.48	7.55	7.63

NOCT: Irradiance 800W / m<sup>2</sup> ambient temperature of 20 °C, wind speed 1m / s

### Temperature Rating

	Limit parameter		
Nominal Operating Cell Temperature (NOCT)	44 °C (±2 °C)	Working Temperature	-40~+85 °C
Maximum power (P <sub>MAX</sub> ) Temperature Coefficient	- 0.39%/ °C	Maximum system voltage	1000V DC (IEC)
Open-circuit voltage (VOC) Temperature Coefficient	- 0.29%/ °C		1000V DC
Short circuit current (ISC) Temperature Coefficient	0.05%/ °C	Maximum fuse rated Current	15A

### Mechanical Specifications

Solar cell Type	156mm × 156mm Mono-crystalline
Number of Cells	1 module 60pieces (6 × 10)
Dimensions	1650 × 992 × 35 mm
Weight	18.6 kg
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White (DD05A.08(II)); Black (DD05A.05(II))
Frame	Black (DD05A.08(II), DD05A.05(II))
Junction Box	IP 67 or IP 68 rated
Cable	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ), 1000 mm (39.4 inches)
Connector	MC4 Compatible or Amphenol H4/UTX

### Warranty

10-year warranty for product

25-year warranty for linear power

\*Please refer to product warranty for details

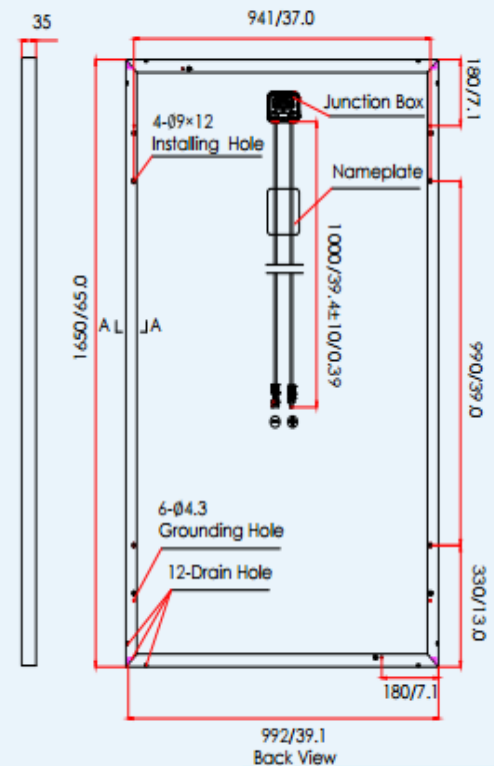
### Packaging Method

Modules per box: 26 pcs

Modules per 40 ft container: 728 pcs

\* Installation depends on the mechanical load

### DIMENSIONS OF PV MODULE unit:mm/inches



### I-V CURVES OF PV MODULE ( 285W)

