

# URE

United Renewable Energy Co., Ltd.

## POWER

D6M\_H3A / 60 cells

295W - 320 W

Mono-Crystalline PV Module

URE Power series module uses URE own high efficiency p-PERC mono crystalline solar cells with aesthetic black design, and advanced module manufacturing experiences.



## Key Features



Positive power tolerance  
+0 ~ +4.99 watt



100% EL inline inspection  
Better module reliability



Withstand heavy loading  
front load 5400 Pa & rear load 2400 Pa

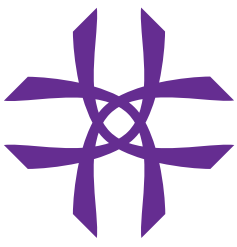


Ammonia resistance  
According to IEC 62716 Ed. 1



Excellent low light performance  
3.5% relative eff. Reduction at low-irradiance (200W/m<sup>2</sup>)





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## Electrical Data

Model - STC		D6M295H3A	D6M300H3A	D6M305H3A	D6M310H3A	D6M315H3A	D6M320H3A
Maximum Rating Power (Pmax)	[W]	295	300	305	310	315	320
Module Efficiency	[%]	18.1	18.4	18.7	19.1	19.4	19.7
Open Circuit Voltage (Voc)	[V]	39.27	39.39	39.49	39.75	39.99	40.07
Maximum Power Voltage	[V]	31.86	32.09	32.35	32.57	32.78	32.80
Short Circuit Current (Isc)	[A]	9.73	9.78	9.86	9.91	9.96	10.28
Maximum Power Current	[A]	9.26	9.35	9.43	9.52	9.61	9.76

\*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m<sup>2</sup>, AM 1.5

\*Values without tolerance are typical numbers.

## Mechanical Data

Item	Specification
Dimensions	1640 mm (L) <sup>1</sup> x 992 mm (W) <sup>1</sup> x 35 mm (D) <sup>2</sup> / 64.5" (L) <sup>1</sup> x 39.1" (W) <sup>1</sup> x 1.38" (D) <sup>2</sup>
Weight	18 kg / 39.7 lbs
Solar Cell	60 monocrystalline 6" silicon cells
Front Glass	Anti-reflective tempered solar glass, 3.2mm thickness
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Cover	Composite film, white
Junction Box	IP 67 rated
Frame	Anodized aluminum frame, original or black
Packaging Configuration	30 pcs Per Pallet, 896 pcs per 40' HQ container

<sup>1</sup> : With assembly tolerance of ± 2 mm [ ± 0.08"]

<sup>2</sup> : With assembly tolerance of ± 0.8 mm [ ± 0.03"]

## Operating Conditions

Item	Specification
Mechanical Load	5400 Pa (Certified by TUV Rheinland)
Maximum System Voltage	TUV/UL 1000 VDC
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C

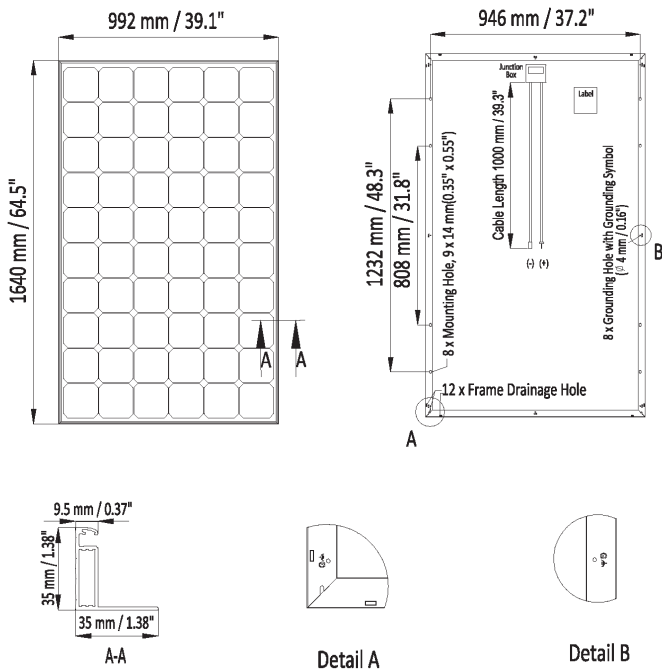
## Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	44°C ± 2°C
Temperature Coefficient of Isc	0.0720 % / °C
Temperature Coefficient of Voc	-0.3192 % / °C
Temperature Coefficient of Pmax	-0.4335 % / °C

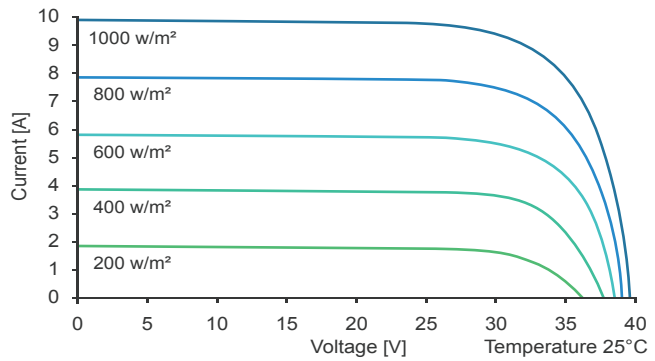
\*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s.

\*Reduction in efficiency from 1000W/m<sup>2</sup> to 200W/m<sup>2</sup> at 25°C: 3 ± 2%.

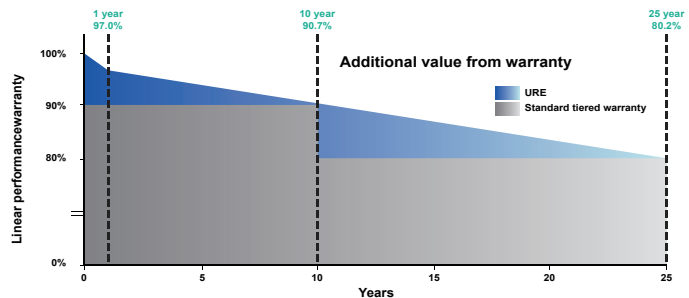
## Engineering Drawing (mm)



## Dependence on Irradiance



## Reliability with Warranty



Output warranty  
**25**  
Years

Product Guarantee  
**10**  
Years

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