

**For a Free Quote:**

Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)

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# EnergyPal

## **Solar Panel Guide Specification Data Sheet**

**Shanghai Dagan Industry Co., Ltd  
270-285W 6MB Series  
INE-275-6MB**

Also available on the web at  
[EnergyPal.com/shanghai-dagan-industry-co-ltd-solar-panels/ine-275-6mb](http://EnergyPal.com/shanghai-dagan-industry-co-ltd-solar-panels/ine-275-6mb)

Mono

Multi

Solutions

270W  
6MB SERIES  
270W-285W

MONOCRYSTALLINE SOLAR MODULE

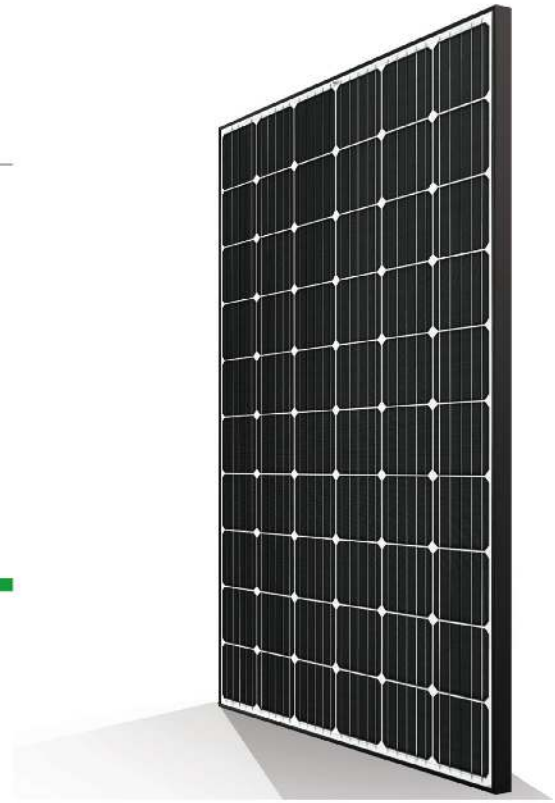
**60 CELL**  
MONOCRYSTALLINE MODULE

**270–285W**  
POWER OUTPUT RANGE

**17.4%**  
MAXIMUM EFFICIENCY

**0 to +5%**  
POSITIVE POWER TOLERANCE

CERTIFICATION



**Maximize Limited Space with top-end efficiency**

- Up to 168 W/m<sup>2</sup> power density
- Low thermal coefficients for greater energy production at high operating temperatures



**Good aesthetics for residential applications**

- Dark mono cells
- Black frame



**Excellent low light performance on cloudy days, mornings and evenings**

- Advanced surface texturing
- Back surface field
- Selective emitter



**Highly reliable due to stringent quality control**

- All modules have to pass electroluminescence (EL) inspection
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant

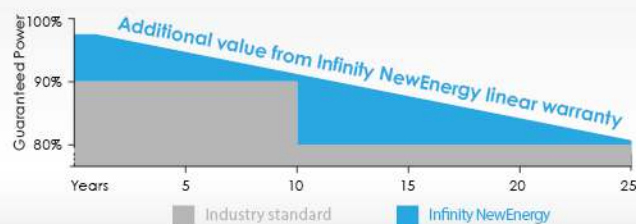


**Certified to withstand challenging environmental conditions**

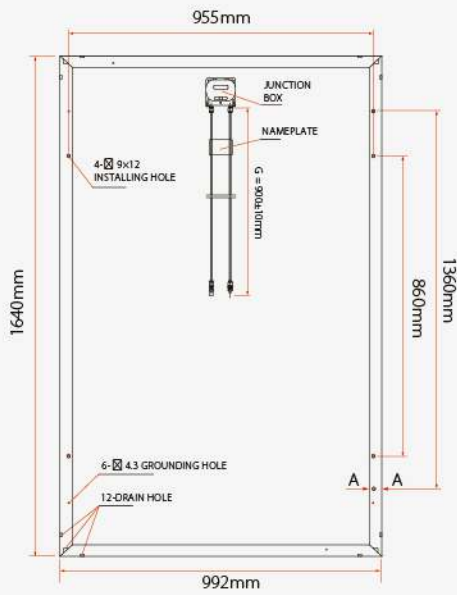
- 35 mm hail stones at 97 km/h

**LINEAR PERFORMANCE WARRANTY**

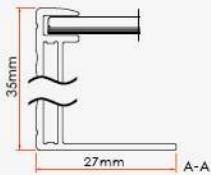
12 Year Product Warranty • 25 Year Linear Power Warranty



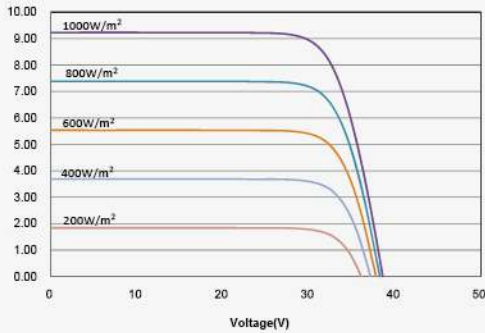
### DIMENSIONS OF PV MODULE INE-6MB



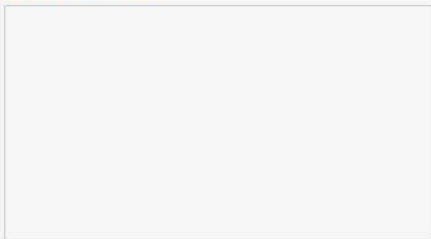
Back View



### I-V CURVES OF PV MODULE INE-6MB



### Dealer Information



### ELECTRICAL DATA @ STC

	INE-270-6MB	INE-275-6MB	INE-280-6MB	INE-285-6MB
Peak Power Watts- $P_{MAX}$ (Wp)	270	275	280	285
Power Output Tolerance- $P_{MAX}$ (%)	0/+5	0/+5	0/+5	0/+5
Maximum Power Voltage- $V_{MPP}$ (V)	31.45	31.76	31.96	32.36
Maximum Power Current- $I_{MPP}$ (A)	8.61	8.68	8.77	8.11
Open Circuit Voltage- $V_{OC}$ (V)	38.51	38.86	39.22	39.26
Short Circuit Current- $I_{SC}$ (A)	9.14	9.22	9.31	9.33
Module Efficiency $\eta_m$ (%)	16.51	16.82	17.12	17.43

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200 W/m<sup>2</sup> according to EN 60904-1.

### ELECTRICAL DATA @ NOCT

	INE-270-6MB	INE-275-6MB	INE-280-6MB	INE-285-6MB
Maximum Power- $P_{MAX}$ (Wp)	201	205	209	212
Maximum Power Voltage- $U_{MPP}$ (V)	28.6	29.0	29.4	29.6
Maximum Power Current- $I_{MPP}$ (A)	7.02	7.08	7.10	7.17
Open Circuit Voltage- $U_{OC}$ (V)	35.8	35.9	36.3	36.6
Short Circuit Current- $I_{SC}$ (A)	7.45	7.48	7.55	7.63

NOCT: Irradiance of 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

### MECHANICAL DATA

Solar Cells	Monocrystalline 156 x 156 mm
Cell Orientation	60 cells (6 x 10)
Module Dimensions	1640 x 992 x 35mm
Weight	18.2 kg
Glass	High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass - 3.2mm
Backsheet	White
Frame	Black Anodized Aluminium Alloy (Silver Available)
J-Box	IP 67 rated
Cables	Photovoltaic Technology cable 4.0 mm <sup>2</sup> , 900mm (Customized Available)
Connector	MC4 Compatible

### TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2K)
Temperature Coefficient of $P_{MAX}$	- 0.40%/K
Temperature Coefficient of $V_{OC}$	- 0.31%/K
Temperature Coefficient of $I_{SC}$	0.05%/K

### MAXIMUM RATINGS

Operational Temperature	-40 to +85°C
Maximum System Voltage	1000V DC (IEC)
Max Series Fuse Rating	15A
Mechanical Load	5400pa
Wind Load	2400pa

### PACKAGING CONFIGURATION

Modules per box:	30 pieces
Modules per 40' container:	840 pieces

### WARRANTY

12 year Product Workmanship Warranty
25 year Linear Performance Warranty
(Please refer to product warranty for details)

### INSURANCE

Product liability insurance with CHUBB Group
Product performance (E&O) insurance CHUBB Group