

# IECS-6B6A-270

## Bi-Facial Photovoltaic Module



- **GLASS-GLASS Solar Module**
- **Front:275Wp / Back:250Wp**
- **N-Type Bi-Facial Cell, LOW LID**
- **Thin Glass design, Total thickness:4.6mm**
- **Light weight design:22kgs**
- **Install in high Angle or Vertical**

**+5**

**WATTS  
POSITIVE  
TOLERANCES**

**10**

**YEAR  
POWER  
GURANTEE 90%**

**25**

**YEAR  
POWER  
GURANTEE 80%**

**100%**

**MADE  
IN  
TAIWAN**

# IECS-6B6A-270 Bi-Facial Photovoltaic Module

## Electrical Characteristics (STC)

STC (Standard Test Conditions): 1,000 W/m<sup>2</sup>, (25 ± 2)°C, AM 1.5 in accordance with EN 60904-3

Capacity Rating	Pmax	285W	280W	275W	270W	265W
Module Efficiency	%	17.33%	17.02%	16.72%	16.42%	16.11%
Maximum Power Voltage	V <sub>mpp</sub>	32.1	31.59	31.86	31.68	31.5
Maximum Power Current	I <sub>mpp</sub>	8.88	8.86	8.63	8.52	8.41
Open Circuit Voltage	V <sub>oc</sub>	38.96	38.62	38.28	37.94	37.6
Short Circuit Current	I <sub>sc</sub>	9.49	9.44	9.38	9.33	9.29
Maximum Reverse Current	I <sub>R</sub> /A	15 A	15 A	15 A	15 A	15 A
Maximum System Voltage	V			1000 V		

## Electrical Characteristics (NOCT)

NOCT (Normal Operating Cell Temperature): 800 W/m<sup>2</sup>, NOCT, AM 1.5

Capacity Rating	Pmax	208.40W	204.63W	201.02W	197.34W	193.68 W
Maximum Power Voltage	V <sub>mpp</sub>	29.42	28.95	29.20	29.04	28.87
Maximum Power Current	I <sub>mpp</sub>	7.09	7.07	6.89	6.80	6.71
Open Circuit Voltage	V <sub>oc</sub>	36.10	35.78	35.47	35.15	34.84
Short Circuit Current	I <sub>sc</sub>	7.66	7.62	7.57	7.53	7.50

## Temperature coefficients

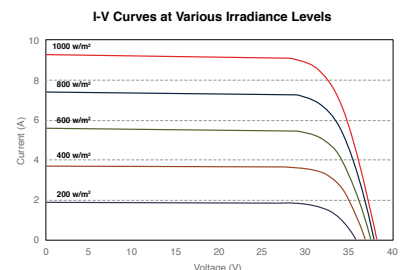
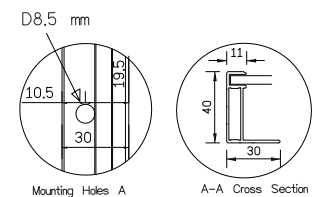
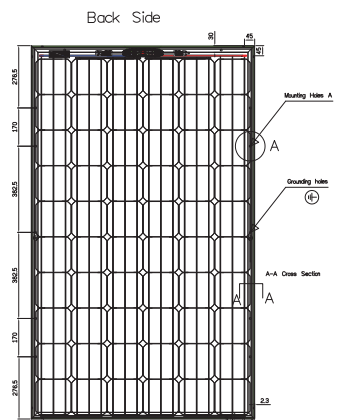
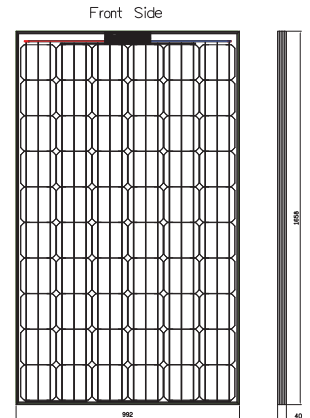
Temperature of Coeff. Of Voc	-0.30%/°C
Temperature of Coeff. Of Isc	+0.04%/°C
Temperature of Coeff. Of Pmax	-0.42%/°C

## Working Conditions

Temperature range	-40°C to + 85°C
NOCT	47°C±2°C
Maximum Series Fuse	15A
Maximum surface load capacity	Tested up to 5,400 Pa according to IEC 61215
Resistance against hail	Maximum diameter of 25mm with impact speed of 83km/hr
Wind Resistance	Positive & Negative Wind Pressure of 5400Pa
Grounding conductivity	<0.01Ω
Application class	Class A according to IEC 61730
Insulation Resistance	>100MΩ

## Mechanical Characteristics

Dimensions (L x W x D)	1658 x 992 x 40
Weight	21.82 Kg
Junction box	1 junction box with 3 bypass diodes
Cable	Solar cable, length 1,000 mm, 4 mm <sup>2</sup> , prefabricated with MC4-combinable plug
Application class	A (according to IEC 61730)
Front glass	Low-Fe High Transparent toughened safety glass, 2 mm
Solar cells	6x10 cells, mono-crystalline Si (156 x156 mm)
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Back side	Low-Fe High Transparent toughened safety glass, 2 mm
Frame	Anodized Aluminum Frame with double-wall profile and drainage holes
Connect Type	Leoni Cable(MC4 Compatible)



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