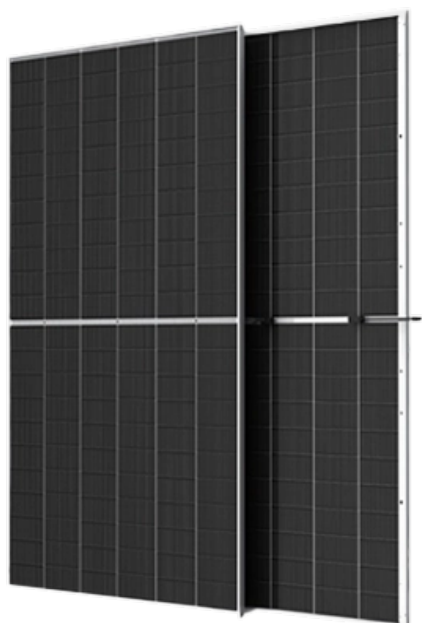




QUAD ULTRA

BIFACIAL MODULE

ESM700PMB6-70SDC

675~700W

N-TYPE SHINGLED

Single crystal silicon

ENSKY SOLAR CO., LTD.

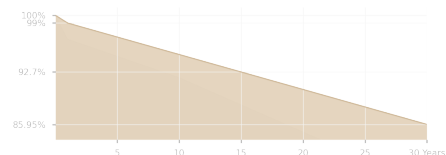
Ensky Solar Co., Ltd. designs and manufactures photovoltaic modules and solar solutions from its production site in Dali Town, Foshan, Guangdong Province, China. The QUAD ULTRA series is built on N-type HJT technology with shingled cells.

TO BE COMPLETED BY THE FACTORY

Year founded · number of countries served · cumulative shipments (GW) · annual production capacity.

PERFORMANCE WARRANTY

-  Years Product warranty on materials and workmanship.
-  Years Linear power performance warranty.
-  % Average annual degradation after the first year.



Indicative curve — to be replaced by the Ensky Solar warranty curve.

TO BE CONFIRMED

Ensky Solar warranty durations, rates and the reference of the contractual warranty statement.

CERTIFICATES

TO BE SUPPLIED BY ENSKY

No certificate is displayed until the certificates actually held by Ensky Solar for this model have been provided.

Please send: management system certificates (ISO 9001, ISO 14001, ISO 45001) and product certificates (IEC 61215, IEC 61730, CE, TÜV or others), with certificate number, issuing body and validity date.

These certificates are issued for a given bill of materials and production site: they cannot be transferred from any other manufacturer.

THE IDEAL SOLUTION FOR

Ground-mounted solar power plants and large industrial rooftops.

-  **Shingled Technology**
Innovative structure, low-temperature adhesive bonding, high-density layout.
-  **Lower LID**
N-type silicon strongly limits light-induced degradation.
-  **Beautiful Appearance**
Deep black, uniform layout, consistent look on the roof.
-  **Compact Design**
Up to 700 Wp output within 2.6 m².
-  **Low System Cost**
High module efficiency reduces mounting and cabling costs.
-  **Low Shading Loss**
Full parallel arrangement increases effective power generation hours.
-  **Bifacial Gain**
Up to +25% additional power depending on ground albedo and mounting height.



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ENSKY SOLAR CO., LTD.

Tel: +86 173 2416 8088 · E-mail: info@enskygroup.com
No. 9, Dazhen Erzhong Industrial Zone, Dali Town, Foshan, Guangdong, China

SPECIFICATIONS

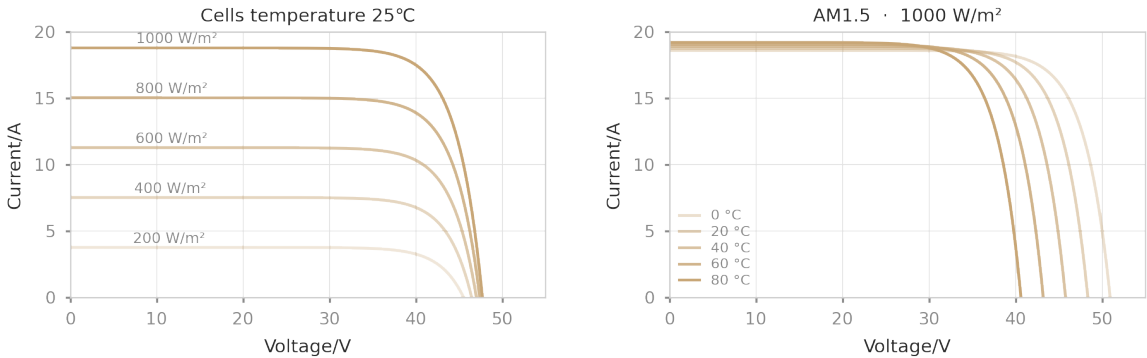
Module Type	ESM675PMB6-70SDC		ESM680PMB6-70SDC		ESM685PMB6-70SDC		ESM690PMB6-70SDC		ESM695PMB6-70SDC		ESM700PMB6-70SDC	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	675	508	680	512	685	516	690	520	695	524	700	527
Operating Voltage (Vmp/V)	39.20	37.40	39.30	37.50	39.40	37.60	39.50	37.70	39.60	37.80	39.60	37.80
Operating Current (Imp/A)	17.23	13.62	17.32	13.70	17.41	13.78	17.49	13.86	17.57	13.94	17.68	14.22
Open-Circuit Voltage (Voc/V)	47.20	45.00	47.30	45.10	47.40	45.20	47.50	45.30	47.60	45.40	47.70	45.50
Short-Circuit Current (Isc/A)	18.32	14.77	18.41	14.85	18.50	14.93	18.59	15.01	18.68	15.09	18.80	14.69
Module Efficiency (ηm/%)	21.90		22.10		22.30		22.50		22.60		24.70	

STC: Irradiance 1000 W/m², Cell Temperature 25 °C, Air Mass AM1.5 | NMOT: Irradiance 800 W/m², Ambient Temperature 20 °C, Air Mass AM1.5, Wind Speed 1 m/s

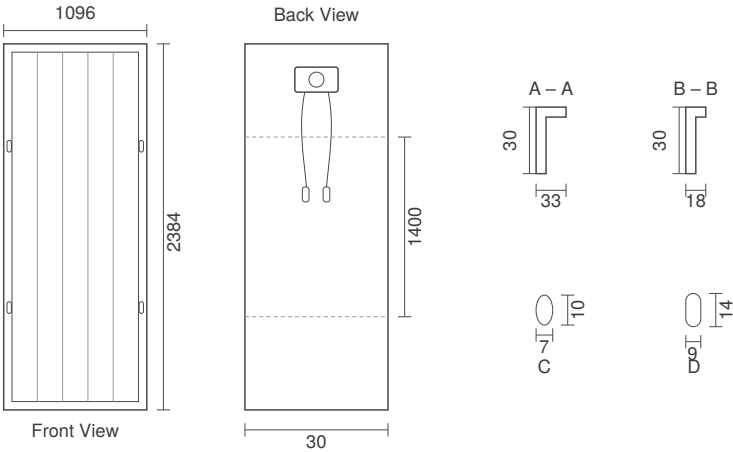
ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFER TO 700 W FRONT)

Pmax gain	Pmax / W	Vmpp / V	Imp / A	Voc / V	Isc / A
5%	735	39.6	18.56	23.7	19.74
10%	770	39.6	19.45	23.7	20.68
15%	805	39.6	20.33	47.7	21.62
20%	840	39.6	21.22	47.8	22.56
25%	875	39.6	22.10	47.8	23.50

I-V CURVE — ESM700PMB6-70SDC



ENGINEERING DRAWINGS



Dimensions in millimeters. General tolerance ± 2 mm.

MECHANICAL CHARACTERISTICS

Dimensions	2384 × 1096 × 30 mm
Weight	32.0 ± 0.3 kg
Front Glass	Tempered glass, 2.0 mm
Frame	Anodized aluminum profile
Cells	N-type monocrystalline
Cell Orientation	345 (69 × 5)
Junction Box	IP68, three diodes
Cable	Customizable / 4 mm²
Packaging	36 pcs/box; 720 pcs/40'HQ

MAXIMUM RATINGS

Maximum System Voltage	DC 1500 V
Series Fuse Rating	30 A
Surface Load Capacity	Front 5400 / Back 2400 Pa
Temperature Range	−40 ~ +85 °C
Withstanding Hail	Max. diameter 25 mm at 23 m/s

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax
Temperature Coefficient Voc
Temperature Coefficient Isc
NMOT



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