

HIGH PERFORMANCE BIFACIAL PERC MONOCRYSTALLINE MODULE

SYM120-6-325BMDG-340BMDG

120 CELL MONO PERC MODULE

325-340Wp POWER OUTPUT RANGE

1500VDC MAXIMUM SYSTEM VOLTAGE

19.9% MAXIMUM EFFICIENCY



About Twinsel

Twinsel is a manufacturer of high-performance solar photovoltaic products and provider of total business solutions for residential, commercial and utility-scale power generation. The company, founded in 1986, compels value generation for its chosen global customers. Techno-commercial innovation, underpinned by consummate quality and support, encircle Twinsel's total Solar PV business solutions which are among the most powerful and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed, and able, to building strategic, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

KEY SELIENT FEATURES



Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing



Industry leading lowest thermal co-efficient of power



Industry leading 12 years product warranty



Excellent low irradiance performance



Excellent PID resistance



Positive tight power tolerance



Dual stage 100% EL Inspection warranting defect-free product



Module Imp binning radically reduces string mismatch losses



Warranted reliability and stringent quality assurances well beyond certified requirements



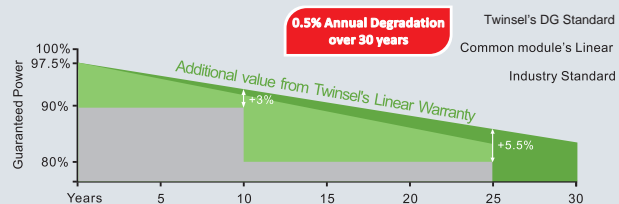
Certified to withstand severe environmental conditions

- ◆ Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
- ◆ Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
- ◆ Excellent mechanical load 2400Pa & snow load 5400Pa resistance



LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty / 25 year Linear Power Warranty



ZHEJIANG TWINSEL ELECTRONIC TECHNOLOGY CO., LTD.

Add: Tashan Industry Zone, Meilin Street Ninghai County, Ningbo City, China.

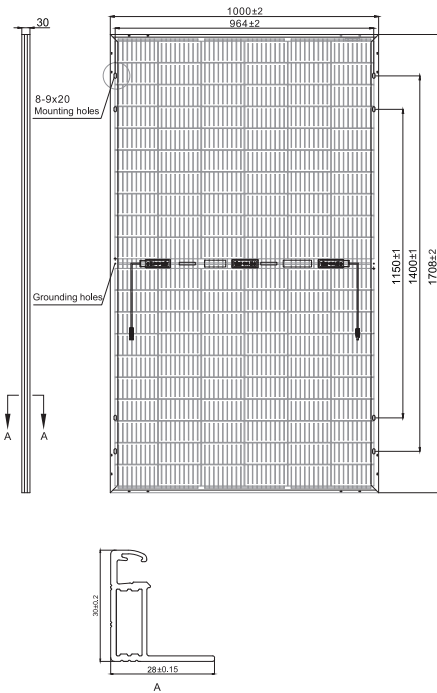
Mail: tony@twinsel.com

Website: www.twinsel.com

Tel: 86-574-59953554

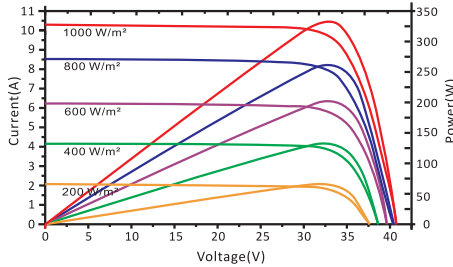
Fax: 86-574-65173959

Dimensions of PV Module Unit: mm



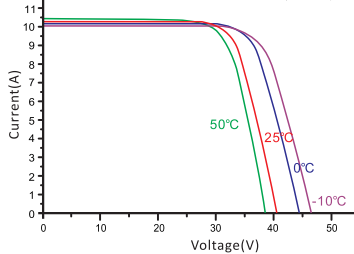
SYM120-6-330BMDG

I-V characteristics at different irradiances



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



Our Partners:

ELECTRICAL DATA (STC)

Model Number	SYM120-6-325BMDG	SYM120-6-330BMDG	SYM120-6-335BMDG	SYM120-6-340BMDG
Rated Power in Watts-Pmax(Wp)	325	330	335	340
Open Circuit Voltage-Voc(V)	40.10	40.30	40.40	40.50
Short Circuit Current-Isc(A)	10.20	10.30	10.40	10.50
Maximum Power Voltage-Vmpp(V)	33.90	34.05	34.20	34.40
Maximum Power Current-Imp(A)	9.60	9.70	9.80	9.90
Module Efficiency (%) *	19.0	19.3	19.6	19.9

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Bifacial factor: 70%±5 * Module Efficiency (%): Round-off to the nearest number

Electrical characteristics with different rear side power gain (reference to 330Wp front)

Bifacial Gain *	Pmax/W	Voc/V	Isc/A	Vmpp/V	Imp/A
5%	347	40.30	10.82	34.05	10.19
10%	363	40.30	11.33	34.05	10.67
15%	380	40.30	11.85	34.05	11.16
20%	396	40.30	12.36	34.05	11.64
25%	413	40.30	12.88	34.05	12.13
30%	429	40.30	13.39	34.05	12.61

*Bifacial Gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA (NMOT)

Model Number	SYM120-6-325BMDG	SYM120-6-330BMDG	SYM120-6-335BMDG	SYM120-6-340BMDG
Maximum Power-Pmax (Wp)	243.3	246.9	250.5	254.6
Open Circuit Voltage-Voc (V)	36.90	37.00	37.10	37.30
Short Circuit Current-Isc (A)	8.36	8.45	8.53	8.61
Maximum Power Voltage-Vmpp (V)	31.10	31.20	31.30	31.50
Maximum Power Current-Imp (A)	7.83	7.92	8.00	8.08

NMOT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	Monocrystalline, 9BB
Cell configuration	120 cells (6×10+6×10)
Module dimensions	1708×1000×30mm
Weight	22kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+) 270mm, Negative(-) 270mm
Connector	Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45°C±2°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

PACKAGING CONFIGURATION

	40ft	20ft
Number of modules per container	910	420
Number of modules per pallet	35	35
Number of pallets per container	26	12
Packaging box dimensions (LxWxH) in mm	1780×1130×1135	1780×1130×1135
Box gross weight[kg]	820	820

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT
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