

# HIGH PERFORMANCE POLYCRYSTALLINE MODULE

SYM72-6-320P-340P

72 CELL POLYCRYSTALLINE MODULE

320-340Wp POWER OUTPUT RANGE

1500VDC MAXIMUM SYSTEM VOLTAGE

17.5% 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



Industry leading lowest temperature co-efficient of power



Industry leading 12 years product warranty



Excellent low irradiance performance



Excellent PID resistance



Positive power tolerance of 3%



Dual stage 100% EL inspection gurantee defect-free product



Module Imp binning radically reduces string mis-match losses



Warranted reliability and stringent quality assurances are well beyond cetified requirements



Certified to withstand severe environmental conditions

- Anti-reflective & anti-soiling surface minimise power losses 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



ISO9001  
ISO14001  
OHSAS18001

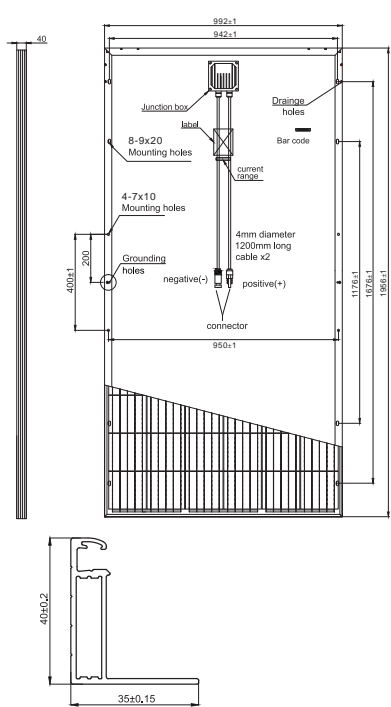


## LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty / 25 year Linear Power Warranty



Dimension of PV Modules



**ELECTRICAL DATA(STC)**

Model Number	SYM72-6-320P	SYM72-6-325P	SYM72-6-330P	SYM72-6-335P	SYM72-6-340P
Rated Power in Watts-Pmax(Wp)	320	325	330	335	340
Open Circuit Voltage-Voc(V)	45.7	46.0	46.3	46.5	46.8
Short Circuit Current-Isc(A)	9.15	9.20	9.25	9.30	9.35
Maximum Power Voltage-Vmpp(V)	37.3	37.7	38.1	38.4	38.6
Maximum Power Current-Impp(A)	8.60	8.65	8.70	8.75	8.80
Module Efficiency (%)	16.5	16.8	17.1	17.3	17.5

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

**ELECTRICAL DATA(NOCT)**

Model Number	SYM72-6-320P	SYM72-6-325P	SYM72-6-330P	SYM72-6-335P	SYM72-6-340P
Maximum Power-Pmax (Wp)	238.4	242.1	245.9	249.6	253.3
Open Circuit Voltage-Voc (V)	42.5	42.7	43.0	43.3	43.6
Short Circuit Current-Isc (A)	7.40	7.44	7.49	7.53	7.57
Maximum Power Voltage-Vmpp (V)	34.0	34.2	34.5	34.7	34.9
Maximum Power Current-Impp (A)	7.01	7.08	7.13	7.19	7.26

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

**MECHANICAL DATA**

Solar cells	Polycrystalline 156.75x156.75 mm
Cell configuration	72 cells (6x12)
Module dimensions	1956x992x40mm
Weight	22kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Backsheet
Frame	Silver Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP67, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm <sup>2</sup> (12AWG), 1200mm length
Connector	IP67 MC4 Compatible

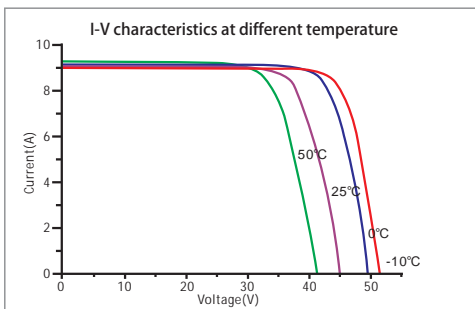
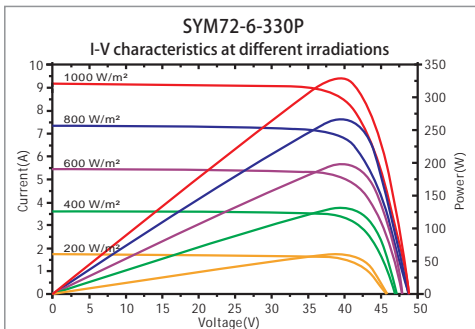
**TEMPERATURE & MAXIMUM RATINGS**

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	15A
Limiting Reverse Current	15A

**PACKAGING CONFIGURATION**

	40ft	20ft
Number of modules per container	648	270
Number of modules per pallet	27	27
Number of pallets per container	24	10
Packaging box dimensions (LxWxH) in mm	1980x1130x1130	1980x1130x1130
Box gross weight[kg]	640	640

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.  
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