SYM 60-6-270P-290P

60 CELL POLYCRYSTALLINE MODULE

270-290Wp power output range

1500VDC MAXIMUM SYSTEM VOLTAGE

17.7% 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



ISO9001 ISO14001

OHSAS18001 IEC TS 62941







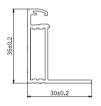


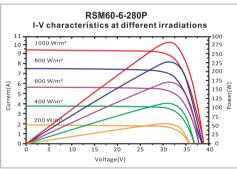
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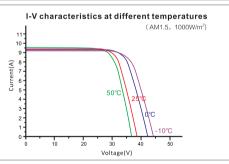




Dimensions of PV Module Unit: mm 952+2 4-9x20 Mounting









ELECTRICAL DATA (STC) SYM60-6-270P SYM60-6-275P SYM60-6-280P SYM60-6-285P SYM60-6-290P Model Number Rated Power in Watts-Pmax(Wp) 270 275 280 285 290 Open Circuit Voltage-Voc(V) 37.90 38.10 38.40 38.60 38.30 Short Circuit Current-Isc(A) 9.20 9.30 9.40 9.50 9.60 Maximum Power Voltage-Vmpp(V) 31.05 31.25 31.50 31.70 31.90 8.90 9.00 Maximum Power Current-Impp(A) 8.70 8.80 9.10 16.5 16.8 17.1 17.7 Module Efficiency (%) ★

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

[★] Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)							
Model Number	SYM60-6-270P	SYM60-6-275P	SYM60-6-280P	SYM60-6-285P	SYM60-6-290P		
Maximum Power-Pmax (Wp)	201.4	205.1	209.1	212.8	216.5		
Open Circuit Voltage-Voc (V)	34.90	35.00	35.20	35.30	35.50		
Short Circuit Current-Isc (A)	7.54	7.63	7.71	7.79	7.87		
Maximum Power Voltage-Vmpp (V)	28.40	28.60	28.80	29.00	29.20		
Maximum Power Current-Impp (A)	7.09	7.17	7.25	7.34	7.42		

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

MECHANICAL DATA				
Solar cells	Polycrystalline, 5BB			
Cell configuration	60 cells (6×10)			
Module dimensions	1650×992×35mm			
Weight	15kg			
Superstrate	High Transmission, Low Iron, Tempered ARC Glass			
Substrate	White Back-sheet			
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color			
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes			
Cables	4.0mm² (12AWG), 900mm length			
Connector	Twinsel PV-SY02, IP68			

TEMPERATURE & MAXIMUM RATINGS				
Nominal Module Operating Temperature (NMOT)	45°C±2°C			
Temperature Coefficient of Voc	-0.32%/°C			
Temperature Coefficient of Isc	0.055%/°C			
Temperature Coefficient of Pmax	-0.39%/°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	840	360				
Number of modules per pallet	30	30				
Number of pallets per container	28	12				
Packaging box dimensions (LxWxH) in mm	1680×1105×1130	1680×1105×1130				
Box gross weight[kg]	500	500				

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. ©2019 Risen Energy. All rights reserved. Specifications included in this datasheet are subject to change without notice



REM60-P-5BB-EN-H2-2-2019

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