HIGH PERFORMANCE POLYCRYSTALLINE MODULE

SYM72-6-200P-220P

72C ELL POLYCRYSTALLINE MODULE

200-220Wp power output range

1000VDC MAXIMUM SYSTEM VOLTAGE

18.0% 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



Indutry 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











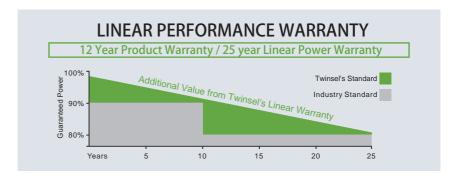






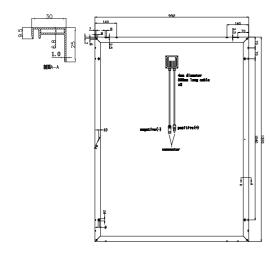












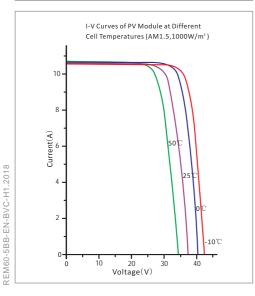
ELECTRICAL DATA (STC)					
Model Number	SYM72-6-200P	SYM72-6-205P	SYM72-6-210P	SYM72-6-215P	SYM72-6-220P
Rated Power in Watts-Pmax(Wp)	200	205	210	215	220
Open Circuit Voltage-Voc(V)	21.6	21.8	22.0	22.2	22.4
Short Circuit Current-Isc(A)	9.59	9.68	9.77	9.86	9.95
Maximum Power Voltage-Vmpp(V)	17.5	17.7	17.9	18.1	18.2
Maximum Power Current-Impp(A)	8.57	8.72	8.93	9.06	9.17
Module Efficiency (%)	17	17.1	17.3	17.5	17.7

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

ELECTRICAL DATA (NOCT)					
Model Number	SYM72-6-200P	SYM72-6-205P	SYM72-6-210P	SYM72-6-215P	SYM72-6-220P
Maximum Power-Pmax (Wp)	147.9	151.6	155.3	159.0	162.7
Open Circuit Voltage-Voc (V)	20.1	20.3	20.4	20.6	20.8
Short Circuit Current-Isc (A)	7.8	7.9	7.9	8.0	8.1
Maximum Power Voltage-Vmpp (V)	16.1	16.2	16.4	16.6	16.7
Maximum Power Current-Impp (A)	6.9	7.0	7.2	7.3	7.4

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

Cur	rent-Voltage &	Power-Volta	ige Curve (2	00 W)	
1000W/m²				٠.	200
10 -			\sim		180
800W/m ²			_	١	160
8 -			\sim $/$.\	140
€ 600W/m²			\		120 3
Courrent(A)		/ /		M	120 3
400W/m ²	_//		\	М	1 80 '
4 -	///			\ \	60
200W/m²	///		`	\\\\	40
				\\\\	20
				\	1.



MECHANICAL DA	TA
Solar cells	Polycrystalline 156.75×104.50mm
Cell configuration	72 cells(6x12)
Module dimensions	1320×990×35mm
Weight	14.5kg
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, 1000VDC, 3 Schottky bypass diodes
Cables	4.0mm² (12AWG), 900mm length
Connector	IP67 MC4 Compatible

TEMPERATURE & M AXIMUM 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	1000VDC			
Max Series Fuse Rating	15A			
Limiting Reverse Current	15A			

PACKAGING C ONFIGURATION				
	40ft	20ft		
Number of modules per container	1160	500		
Number of modules per pallet	2	2		
Number of pallets per container	580	250		
Packaging box dimensions (LxWxH) in mm	1340*1010*90	1340*1010*90		
Box gross weight[kg]	30	30		

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



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