SYM144-6-335P-355P

144 CELL POLYCRYSTALLINE MODULE

335-355Wp power output range

1500VDC MAXIMUM SYSTEM VOLTAGE

17.8% 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.

KFY SFI IFNT FFATURES



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





























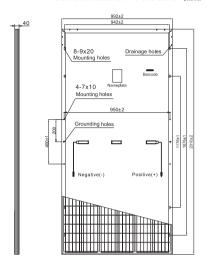




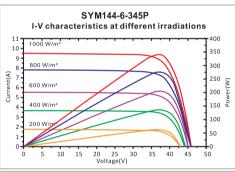


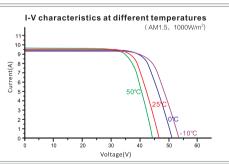


Dimensions of PV Module Unit: mm









0		
EM144-P-5BB-EN-H2-1-2019		
7		
_		
7		
立		
<u>_</u>		
B		
-57		
<u> </u>		
4		
7		
\geq		
ш		

ELECTRICAL DATA (STC)					
Model Number	SYM144-6-335P	SYM144-6-340P	SYM144-6-345P	SYM144-6-350P	SYM144-6-355P
Rated Power in Watts-Pmax(Wp)	335	340	345	350	355
Open Circuit Voltage-Voc(V)	46.10	46.30	46.50	46.70	46.90
Short Circuit Current-Isc(A)	9.30	9.40	9.50	9.60	9.70
Maximum Power Voltage-Vmpp(V)	38.60	38.70	38.80	38.95	39.10
Maximum Power Current-Impp(A)	8.70	8.80	8.90	9.00	9.10
Module Efficiency (%) ★	16.8	17.1	17.3	17.6	17.8

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	SYM144-6-335P	SYM144-6-340P	SYM144-6-345P	SYM144-6-350P	SYM144-6-355P
Maximum Power-Pmax (Wp)	250.4	254.0	257.5	261.4	265.3
Open Circuit Voltage-Voc (V)	42.40	42.60	42.80	43.00	43.10
Short Circuit Current-Isc (A)	7.63	7.71	7.79	7.87	7.95
Maximum Power Voltage-Vmpp (V)	35.30	35.40	35.50	35.60	35.80
Maximum Power Current-Impp (A)	7.09	7.17	7.25	7.34	7.42

NMOT: Irradiance at 800 W/ m^2 , Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA				
Solar cells	Polycrystalline, 5BB			
Cell configuration	144 cells (6×12+6×12)			
Module dimensions	2010×992×40mm			
Weight	23kg			
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), 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	-0.32%/°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	594	270		
Number of modules per pallet	27	27		
Number of pallets per container	22	10		
Packaging box dimensions (LxWxH) in mm	2040×1130×1130	2040×1130×1130		
Box gross weight[kg]	670	670		

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

Our Partners:

Tel: 86-574-59953554

Fax: 86-574-65173959