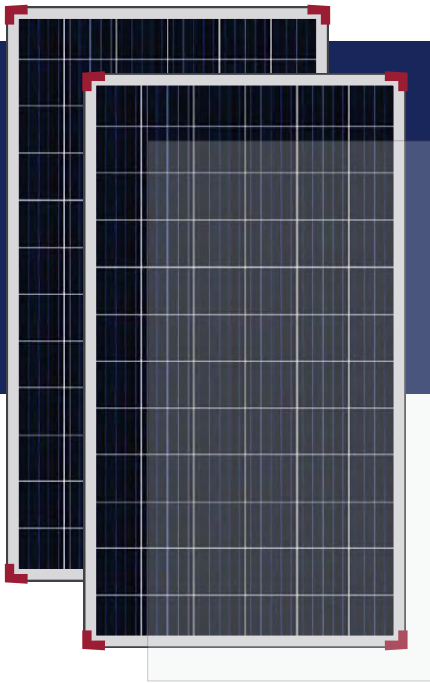




SOLAR PANELS

Poly Solar Panel

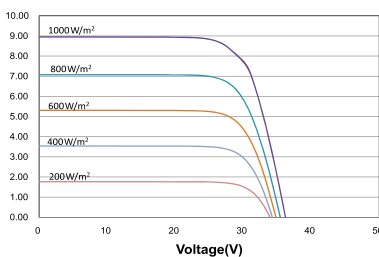
POLY SOLAR PANELS

High Efficiency, PID Free, Positive Tolerance

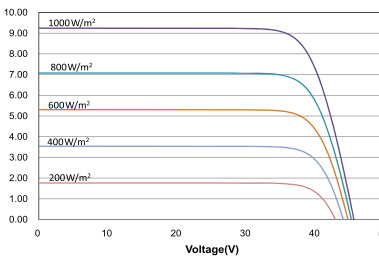
160 Wp-165 Wp 36 Full Cell - Poly Solar Panel

Highly Efficient PV Module

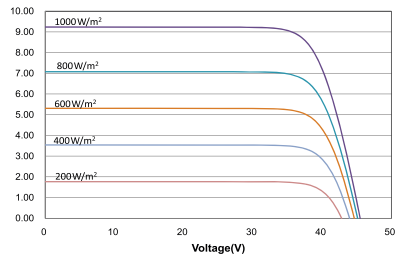
I-V CURVES OF PV MODULE



I-V CURVES OF PV MODULE



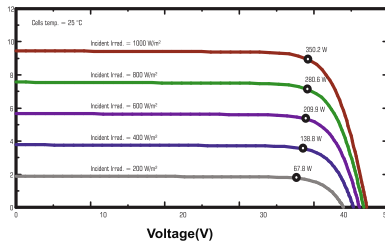
I-V CURVES OF PV MODULE



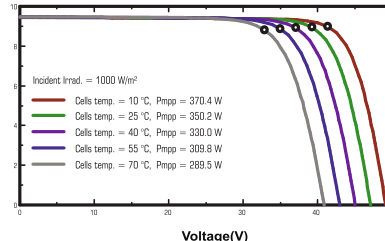
315 Wp-335 Wp 72 Full Cell - Poly Solar Panel

Highly Efficient PV Module

IV CURVE VARIATION WITH IRRADIANCE



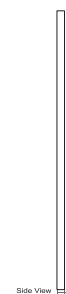
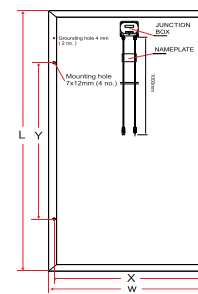
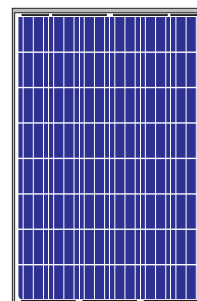
IV CURVE VARIATION WITH TEMPERATURE



160 Wp-165 Wp 36 Full Cell - Poly Solar Panel

Model Number	STM160-P	STM165-P
Maximum Power (P _{max})-Wp	160	165
Power Output Tolerance-P _{max} (W)	3	3
Max. power voltage (V _{pm})	18.6	18.69
Max. power Current (I _{pm})	8.6	8.83
Open circuit Voltage (V _{oc})	22.68	22.79
Short circuit Current (I _{sc})	9.1	9.34
Module Efficiency η (%)	16.17	16.67
Fill Factor (%)	≥ 75	
ELECTRICAL DATA (NOCT)		
Maximum Power - P MAX (Wp)	118.4	122.1
Maximum Power Voltage - V _{pm} (V)	17.15	17.23
Maximum Power Current - I _{pm} (A)	6.91	7.09
Open Circuit Voltage - V _{oc} (V)	20.98	21.08
Short Circuit Current - I _{sc} (A)	7.35	7.55
Temperature Coefficients (T _c)		
Current Temperature Coefficients α (I _{sc})	0.052%/°C	
Voltage Temperature Coefficients β (V _{oc})	-0.31%/°C	
Power Temperature Coefficients γ (P _{max})	-0.41%/°C	
Maximum Ratings		
NOCT	45°C $\pm$ 2°C	
Ambient Temperature	-40°C to 85°C	
Maximum Fuse Rating	20A	
Maximum System Voltage (V _{dc})	1000 Vdc	
Fire Rating	Class C	
Bypass Diode Rating	20A	
Mechanical Data		
Module dimension (LXWXH) ($\pm$ 1.5mm)	1486*666*34	
Length of Module	1486mm	
Width of Module	666mm	
Weight	11.5	
Area of Module	0.9896765sqmtr.	

Engineering Drawings



TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C ($\pm 2^\circ\text{C}$)
Temperature Coefficient of P _{MAX}	- 0.42% / 2°C
Temperature Coefficient of V _{oc}	- 0.33% / 2°C
Temperature Coefficient of I _{sc}	0.05% / 2°C

WARRANTY

90% of the rated Wattage at the end of 10 years and 80% of the rated wattage at the end of 25 years.
(Please refer to product warranty for details)

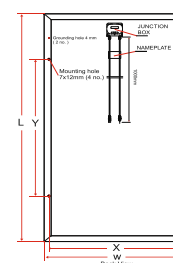
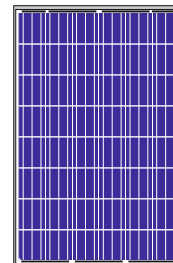
MAXIMUM RATINGS

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1000V DC
Max Series Fuse Rating	15A

330Wp-335 Wp 72 Full Cell - Poly Solar Panel

Model Number	STM330-P	STM335-P
Maximum Power(Pmax.)-Wp	330	335
Power Output Tolerance-Pmax(W)	3	3
Max.power voltage(Vpm)	38.2	38.3
Max.power Current(Ipm)	8.65	8.75
Open circuit Voltage(Voc)	46.45	46.6
Short circuit Current(Isc)	9.25	9.34
Module Efficiency η(%)	16.94	17.19
Fill Factor	≥75	≥75
	ELECTRICAL DATA (NOCT)	
Maximum Power - P MAX (Wp)	242.55	247.9
Maximum Power Voltage - Vpm (V)	34.97	35.24
Maximum Power Current - Ipm (A)	6.93	7.04
Open Circuit Voltage - Voc (V)	42.7	43.11
Short Circuit Current - Isc (A)	7.48	7.64
	Temperature Coefficients (Tc)	
Current Temperature Coefficients α (Isc)	0.052%/°C	
Voltage Temperature Coefficients β (Voc)	-0.31%/°C	
Power Temperature Coefficients γ(Pmax)	-0.41%/°C	
	Maximum Ratings	
NOCT	45°C±2°C	
Ambient Temperature	-40°C to 85°C	
Maximum Fuse Rating	20A	
Maximum System Voltage (Vdc)	1000 Vdc	
Fire Rating	Class C	
Bypass Diode Rating	20A	
	Mechanical Data	
Module dimension (LXWXH) (±1.5mm)	1966*991*35	
Weight	24.6	
Area of Module	1.948306 Sqmtr.	
Length of Module	1966	
Width of Module	991	

Engineering Drawings



TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C ($\pm 2^\circ\text{C}$)
Temperature Coefficient of P _{MAX}	- 0.42% / 2°C
Temperature Coefficient of V _{oc}	- 0.33% / 2°C
Temperature Coefficient of I _{sc}	0.05% / 2°C

WARRANTY

90% of the rated Wattage at the end of 10 years and 80% of the rated wattage at the end of 25 years.
(Please refer to product warranty for details)

MAXIMUM RATINGS

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1000V DC
Max Series Fuse Rating	20A