

Maximize Solar Return with Solartech Sapphire Modules

Key Features



Multi-crystalline modules designed for residential commercial and utility applications, rooftop or ground mount



High output, 17.08% highest conversion efficiency



Designed for IEC DC 1000V applications



Commit protection in the severest weather conditions with certified EVA, Back sheet foil, and Junction box



Ensure 5400pa snow loads and 2400pa wind loads with high transparent tempered glass and robust anodized aluminum frame

Reliable Quality

- Positive power tolerance : 0 ~ +3%
- 100% EL double-inspection ensures modules are defects free
- Potential Induced Degradation (PID) Resistant

Comprehensive Certificates

- IEC 61215, IEC 61730 and CE
- ISO 9001: 2008: Quality management systems
- ISO 14001: 2004: Environmental management systems
- OHSAS 18001: 2007: Occupational health and safety management systems

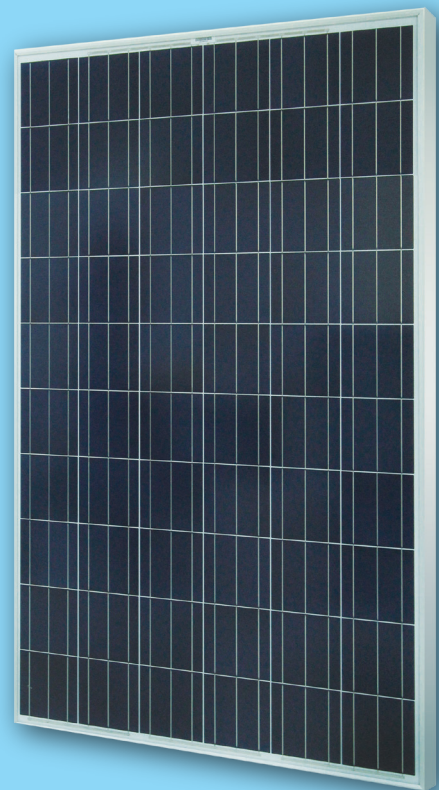
Warranty

- 10-year limited product warranty, 25-year limited power output warranty
(90% for 10 years, 80% for 25 years)



SAPPHIRE CELL INSIDE

260W-280W



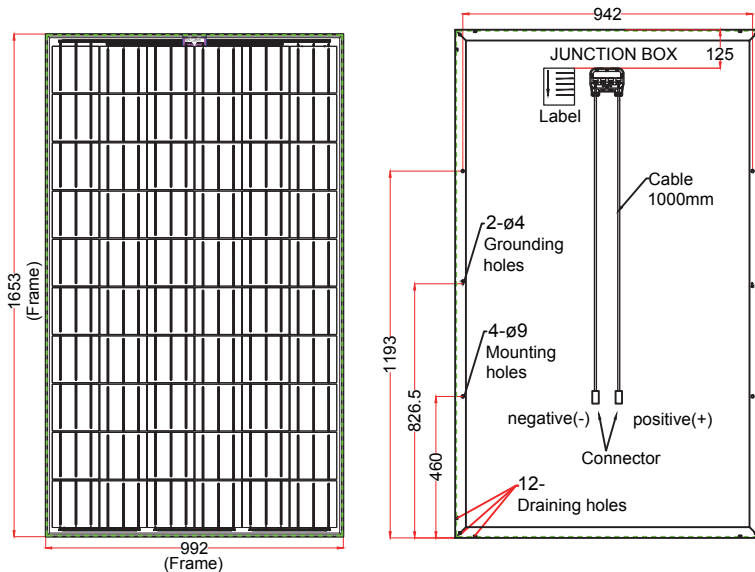
SEC-6P-60-3BB Series
Multi-Crystalline Photovoltaic Modules



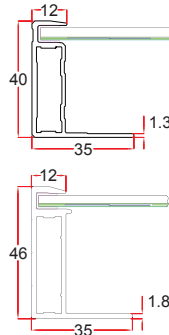
SEC-6P-60-3BB Series 260W-280W

Multi-Crystalline Photovoltaic Modules

Mechanical Data

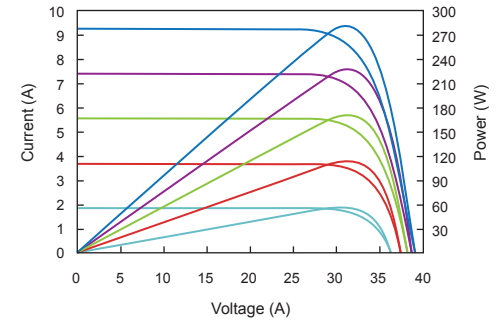


Dimension: 1653mm x 992mm x 40mm (46mm)
 Cells: 60 polycrystalline 156x156mm cells
 Connection: Junction box above IP65 with 3 bypass diodes
 Cable: 4mm² x 1.0m with Tyco or MC4 compatible connectors
 Frame: Anodized aluminum
 Weight: 40mm : 19.0 kg / 41.85 lbs
 46mm : 20.0 kg / 44.05 lbs



IV Curve

IV and P_{MAX} Curves with different radiation levels at 25°C
 — 1000W/m² — 800W/m² — 600W/m² — 400W/m² — 200W/m²



Temperature Coefficient

Temp. Coeff. of I_{SC} = 0.05%/C
 Temp. Coeff. of V_{OC} = -0.30%/C
 Temp. Coeff. of P_{MAX} = -0.41%/C

Maximum Operation

Operational Temperature: -40°C to +85°C
 (-40°F to +185°F)
 Maximum System Voltage: 1000V DC
 Maximum Reverse Current: 15A
 Maximum Load: Snow loads 5400pa or 550kg/m²
 Wind loads 2400pa

Electrical Characteristics @ STC*

Module Number	SEC-6P-60-XXX-3BB, XXX = Nominal Power P _{MAX} [W _P]				
Nominal Power P _{MAX} [W _P]	260	265	270	275	280
Power Tolerance **	+3%	+3%	+3%	+3%	+3%
Nominal Voltage V _{MAX} [V]	30.99	31.25	31.30	31.50	31.68
Nominal Current I _{MAX} [A]	8.39	8.48	8.63	8.73	8.84
Open Circuit V _{OC} [V]	38.28	38.40	38.60	38.80	39.10
Short Circuit I _{SC} [A]	8.70	8.73	8.95	9.15	9.31
Efficiency Eff [%]	15.86	16.16	16.47	16.77	17.08

*STC: Standard Test Conditions, measurement at radiation strength 1,000 W/m², spectral distribution AM 1.5, temperature 25°C, in accordance with EN 60904-3

**Power tolerance can be adjusted on requests

NOCT: Nominal Operating Cell Temperature, 45.3 +/- 2°C, measurement at radiation strength 800 W/m², AM 1.5, Air temperature 20°C, wind speed 1m/s

Specifications are subject to change without notice

Warranty

10 year limited product workmanship warranty

25 year limited power output warranty: 90% minimum rated power for 10 years. 80% minimum rated power for 25 years

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