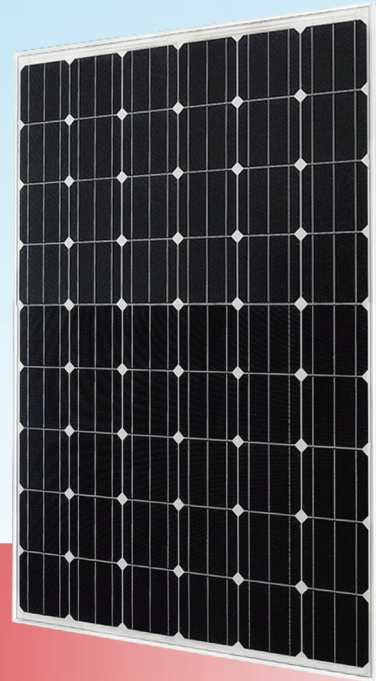




Solartech
Energy Corp.

225W-245W

Maximize solar return with
Solartech
High Performance Modules



ASC-6M-54-3BB Series
Mono-Crystalline Photovoltaic Modules

Maximize peak output with pre-sorted high quality 6" mono-crystalline cells

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

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

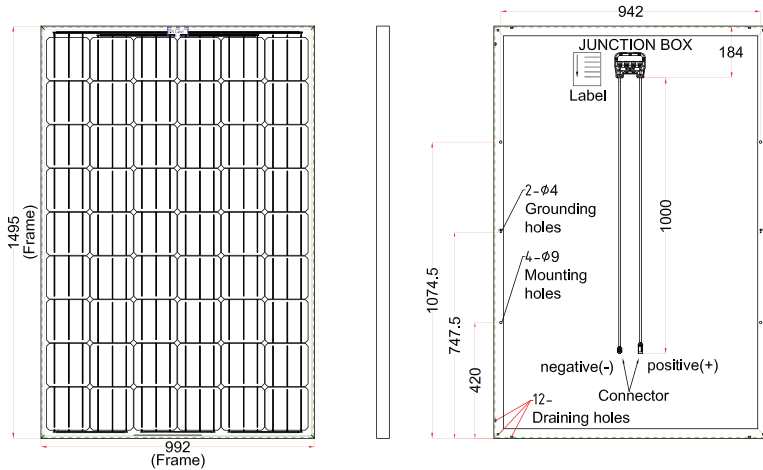
10-year limited product warranty, 25-year limited power output warranty (90% for 10 years, 80% for 25 years)



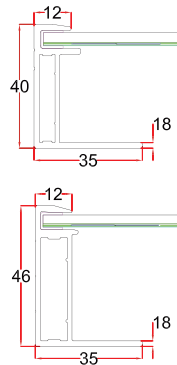
ASC-6M-54-3BB Series 225W-245W

Mono-Crystalline Photovoltaic Modules

Mechanical Data



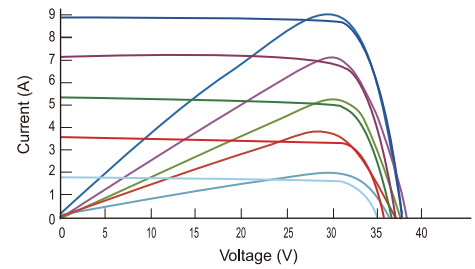
Dimension: 1495mm x 992mm x 40mm (46mm)
 Cells: 54 mono-crystalline 156x156mm cells
 Connection: Junction box IP65 with 3 bypass diodes
 Cable: 4mm²x1.0mm with Tyco or MC4 compatible connectors
 Frame: Anodized aluminum
 Weight: 40mm : 17.5 kg / 38.55 lbs
 46mm : 18 kg / 39.65 lbs



IV Curve

IV and Pmax 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} = 0.047%/K
 Temp. Coeff. of V_{oc} = -0.334%/K
 Temp. Coeff. of P_{max} = -0.45%/K

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 | ASC-6M-54-3BB-225 | ASC-6M-54-3BB-230 | ASC-6M-54-3BB-235 | ASC-6M-54-3BB-240 | ASC-6M-54-3BB-245 |
|--------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nominal Power P _{max} [Wp] | 225 | 230 | 235 | 240 | 245 |
| Power Tolerance ** | +3% | +3% | +3% | +3% | +3% |
| Nominal Voltage V _{max} [V] | 27.50 | 28.10 | 28.40 | 29.00 | 29.20 |
| Nominal Current I _{max} [A] | 8.20 | 8.20 | 8.30 | 8.30 | 8.40 |
| Open Circuit V _{oc} [V] | 33.70 | 34.10 | 34.40 | 34.70 | 35.00 |
| Short Circuit I _{sc} [A] | 8.70 | 8.80 | 8.80 | 8.90 | 8.90 |
| Efficiency Eff [%] | 15.17 | 15.51 | 15.85 | 16.18 | 16.52 |

* 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 by requests

NOCT: Nominal Operating Cell Temperature, 45.8 +/- 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

Solartech Energy Corp.

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