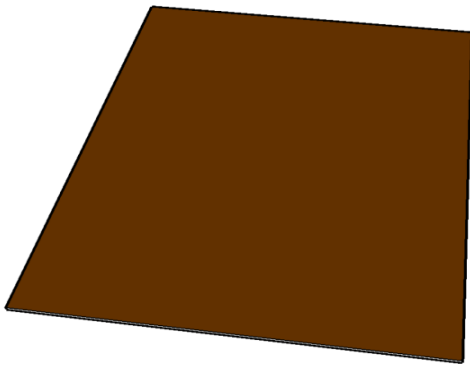


a-Si thin film solar PV module SI S4-X.Ax series

SI S4 -78 -82 -86 -90



Signet Solar's Frameless Large Area Modules Are

- robust in a wide variety of climates and conditions,
- cost effective,
- environmentally friendly (nontoxic silicon based material set) and recyclable.

Signet Solar Quality

- High reliability frameless glass-to-glass laminated modules
- IEC 61646 / IEC 61730 tested (TUV)
- Optional bonded back rails (required for installation)
- Optional bypass diode
- 1000 V maximum voltage
- Requires inverters with grounded inputs

Limited Warranty

- Product workmanship: 2 years
- Performance:
 - 10 years (90% of minimum stabilized rated output power)
 - 25 years (80% of minimum stabilized rated output power)

| mechanical data | unit | | | | |
|----------------------------|------------------|------|--|--|--|
| height | mm | 1300 | | | |
| width | mm | 1100 | | | |
| thickness (laminates only) | mm | 8 | | | |
| static load | N/m ² | 2400 | | | |

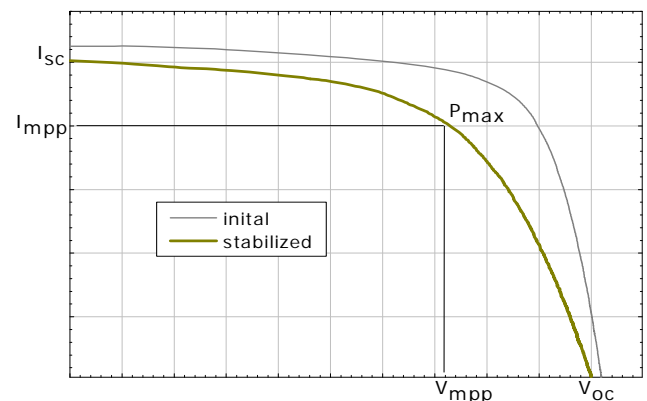
further mechanical data in customer drawing

| electrical data (@stc)* | unit | | | | |
|-------------------------|------|-------|------|------|------|
| maximum system voltage | V | 1000 | | | |
| power | W | 78 | 82 | 86 | 90 |
| power tolerance | % | +/- 3 | | | |
| V _{oc} | V | 92 | 92.6 | 93.2 | 93.8 |
| I _{sc} | A | 1.44 | 1.46 | 1.48 | 1.5 |
| V _{mpp} | V | 70.4 | 71.3 | 72.3 | 73.2 |
| I _{mpp} | A | 1.11 | 1.15 | 1.19 | 1.23 |

| thermal data | unit | | | | |
|---------------------------|------|--------------|--|--|--|
| temperature range | °C | -40 ... 85°C | | | |
| temperature coefficients: | | | | | |
| power | % /K | -0.25 | | | |
| V _{oc} | % /K | -0.30 | | | |
| I _{sc} | % /K | +0.10 | | | |

* standard test conditions if not otherwise specified: 25°C, 1000W / m², AM 1.5
Note: Initial power is 10–20% higher than stabilized power. Initial voltages are up to 10% higher. All voltages are relative to the negative power connector of the module.

typical module characteristic



Contact Information

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