

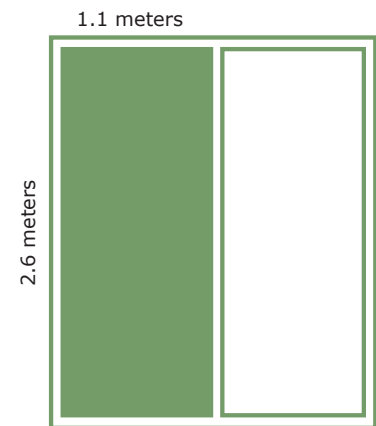
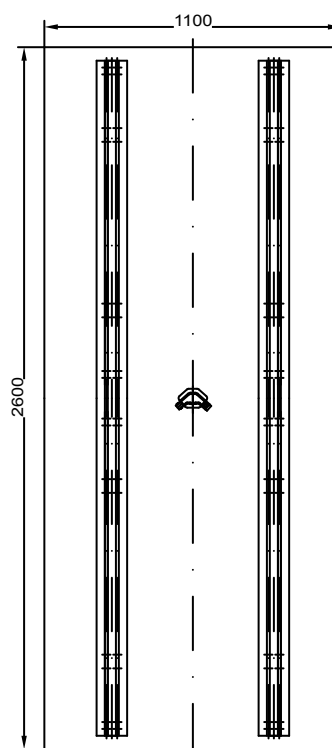
Datasheet
a-Si thin film solar PV module
SI S21-170.A2

Frameless Large Area Modules

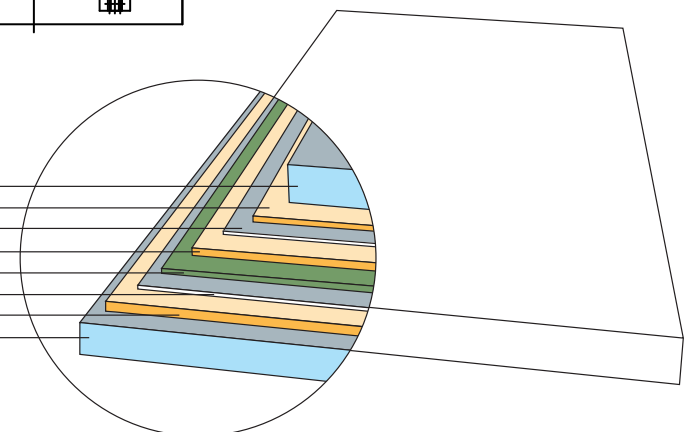
- Greater annual energy output (kWh). Energy delivered is expected to be 10% greater per rated peak power (kWp)*
- Better performance in diffuse light or partial and indirect sunlight conditions*
- Higher electricity generation at higher temperatures**

* As compared to Crystalline silicon (c-Si) modules.

** Due to their lower (negative) temperature coefficient, Thin Film Silicon modules generate more electricity than crystalline silicon modules at higher temperatures.



- 3.2 mm front side glass
- transparent top electrode (TCO)
- p-silicon
- i-silicon
- n-silicon
- contact and reflector
- PVB foil
- 3.2 mm back side glass



a-Si thin film solar PV module

SI S21-170.A2



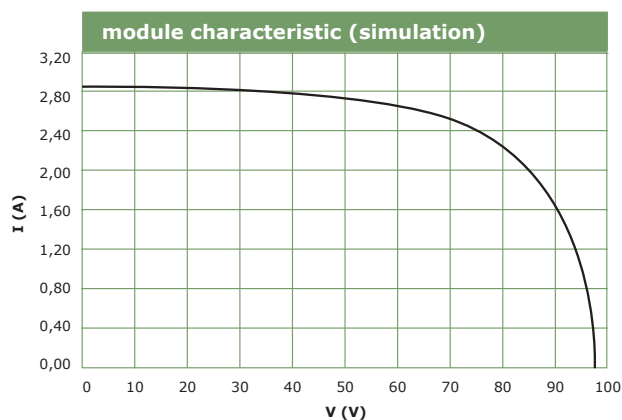
Specifications

Signet Solar Quality

- High reliability frameless glass-to-glass laminated modules
- 100% end of line tested and meet IEC 61646 requirements (TUV Certification Pending)
- Made from nontoxic materials and are easily recyclable
- Optional bonded back rails (required for installation)
- Optional bypass diodes
- 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	
length	mm	2600
width	mm	1100
thickness*	mm	8
weight	kg	60
static load	N/m ²	2400

* without junction box

thermal data	unit	
temperature range	°C	- 40 ... 85
temperature coefficients:		
power	%/K	- 0.20
V _{oc}	%/K	- 0.30
I _{sc}	%/K	+ 0.10

electrical data (@stc)*	unit	
maximum system voltage V		1000
power	W	170
power tolerance	%	+/- 5
V _{oc}	V	96
I _{sc}	A	2.8
V _{mpp}	V	76
I _{mpp}	A	2.2

* standard test conditions if not otherwise specified: 25°C, 1000W / m², AM 1.5

Note: Initial power is 10 – 20% higher than stabilized power.
All voltages are relative to the negative power connector of the module.

Contact Information

USA

Signet Solar Inc.
525 Middlefield Road, Suite 150
Menlo Park, CA 94025

Phone +1.650.289.0399
Fax +1.650.289.0562

Germany

Signet Solar GmbH
Am Fuchsloch 10
04720 Mochau (near Dresden)

Phone +49.3431.6076.100
Fax +49.3431.6076.305

India

Signet Solar India PV Ltd.
11/7, 10th Street, Dr. VSI Estate
Thiruvanniyur, Chennai 600041

Phone +91.44.3242.7636
Fax +91.44.2446.5222