For a Free Quote:
Web: EnergyPal.com
Call: **1-800-990-3725**
Email: **contact@energypal.com**

Solar Panel Guide

Specification Data Sheet

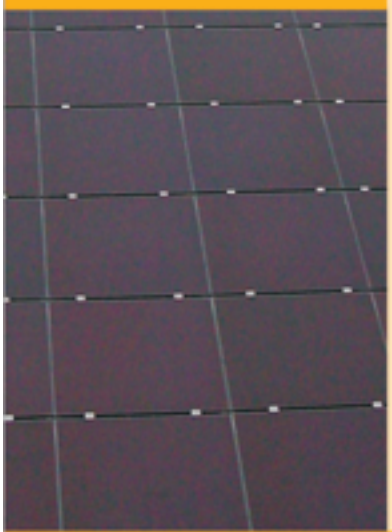
Learn more at energypal.com/best-solar-panels-for-homes

Power Series QS
Amorphous Silicon Thin Film Modules

We are
Moser Baer Solar







Power Series QS Amorphous Silicon Thin Film solar modules are manufactured in highly automated, state-of-the-art facilities. The frameless Glass-PVB-Glass modules are available in 1300x1100mm² (51.181x43.307") configuration offering a range of power outputs. Automated inspection and in-house technical expertise ensures tight tolerances and greater reliability with world-class quality. These modules provide cost-effective solar photovoltaic solutions that are ideal for large grid-connected and rooftop systems.

Product Features

- Power Series QS Amorphous Silicon Thin Film solar modules are available from stabilized power of 84 W, 86 W, 88 W, 90 W & 92 W bins
- Frameless Glass-PVB-Glass modules with highly translucent and low iron front glass
- Modules are fitted with CE and UL approved MC junction box with Schottky by-pass diode
- Bonded rails comprises galvanized aluminium and come with pre-drilled holes and brackets for ease of mounting
- Made from non-toxic materials and are easily recyclable

Performance

- Deliver stabilized power enabled by a high efficiency CVD process
- Offer robust performance under a diverse set of climatic conditions
- Excellent performance under diffuse (low) light and indirect sunlight conditions

Quality

- 100% inspection for mechanical and visual defects with continued monitoring of electrical performance
- Six Sigma practices used in manufacturing line
- Certified as per: ISO 9001, ISO 14001, OHSAS 18001, SA 8000, Awarded a 5-Star Rating from TUV Rheinland along with 100% rating for Quality Systems
- Tested by leading international institutes and certified for reliability and safety
  - Certified for IEC 61646, IEC 61730, CE, UL 1703*

Warranty

- Defect-free material and workmanship with 5 year limited warranty
- Performance guarantee
  - 10 years at 90% of minimum stabilized rated output power
  - 25 years at 80% of minimum stabilized rated output power

*Certification under way
*Certifications have been issued under the product code of MBTF 85 / MBTF 100

www.moserbaersolar.com | Email: pvinfo@moserbaer.in
© Copyright 2010 Moser Baer
PV/TF1/ENG/SC/057
Revision No. 2

Power Series QS
Amorphous Silicon Thin Film Modules

Electrical Characteristics	Bin 84 W	Bin 86 W	Bin 88 W	Bin 90 W	Bin 92 W
Maximum Power (Initial/Stabilized) (W)	101 / 84	103 / 86	105 / 88	108.04 / 90	110.32 / 92.0
Power Output Tolerance (%)	± 5	± 5	± 5	± 5	± 5
Open Circuit Voltage, V_{oc} (V)	94.6 / 92.5	94.4 / 92.3	94.7 / 92.6	93.9 / 91.8	94.5 / 92.4
Short Circuit Current, I_{sc} (A)	1.51 / 1.42	1.55 / 1.45	1.57 / 1.47	1.66 / 1.56	1.67 / 1.57
Maximum Power Voltage, V_{mp} (V)	76.1 / 71.6	76.1 / 72.0	77.0 / 72.8	74 / 70	75.05 / 71.00
Maximum Power Current, I_{mp} (A)	1.32 / 1.17	1.36 / 1.20	1.37 / 1.21	1.46 / 1.29	1.47 / 1.3
Maximum System Voltage (V)	1000	1000	1000	1000	1000

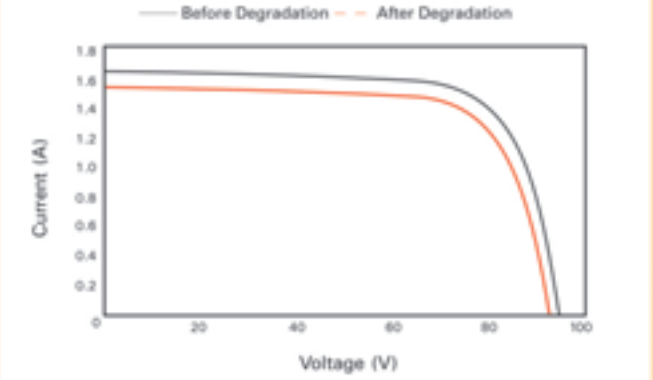
Mechanical Characteristics	Units	
Dimensions (LxW)	mm/inches	1300x1100/51.181x43.307
Surface Area	m^2/$inches^2$	1.43/2216.504
Thickness*	mm/inches	7.5/0.295
Weight**	Kgs/lbs	25/55

*Without Junction Box
**Without rails

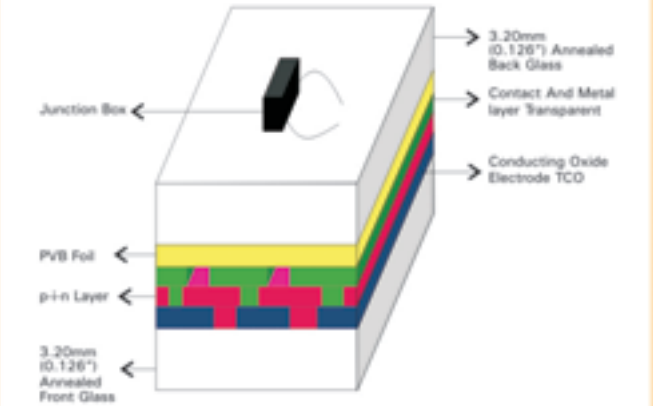
Temperature Coefficient	Units	
Maximum Power	%/°C	-0.2
Open Circuit Voltage	%/°C	-0.33
Short Circuit Current	%/°C	0.09
Maximum Power Voltage	%/°C	-0.32
Maximum Power Current	%/°C	0.14

Operating temperature range: (-)40°C to (+)85°C

Typical IV Characteristics (before and after degradation) measured at AM 1.5 and 25°C cell temperature

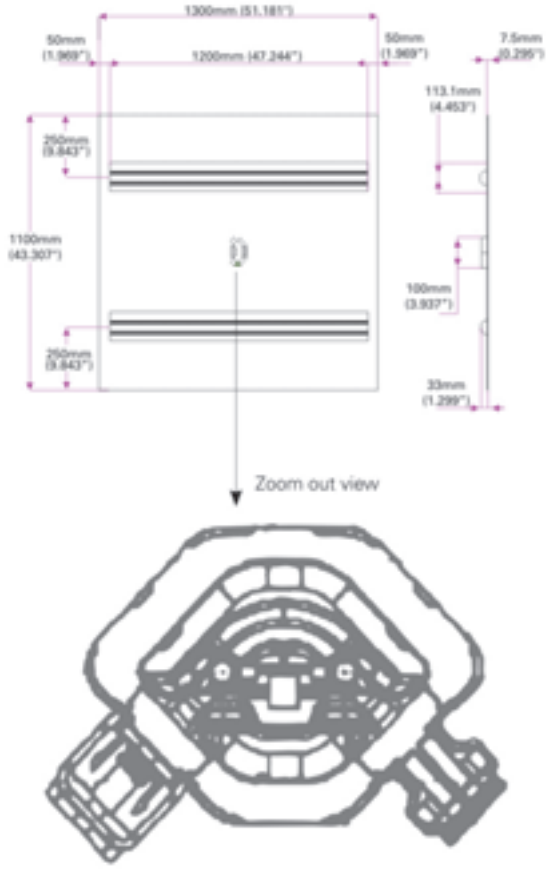


Cross-section of a-Si thin film module



*Thickness not to scale

Dimensions of 1300x1100 mm²/51.181"x43.307" module



* Specifications are subject to change without notice