

80 Watt Maximum Power

Amorphous Silicon (a-Si) Thin Film Solar Panel

FEATURES

- » Industry leading panel production based on Six Sigma and LEAN manufacturing process, as well as Suntech patented a-Si technologies
- » Attractive appearance
- » Withstands high wind-pressure and snow load, and extreme temperature variations
- » Performs excellent in high temperatures due to favorable temperature coefficients
- » Specially designed bonded rail helps installation quickly and easily to save BOS costs
- » Frameless design allows evaporation of edge moisture, and also prevents electrochemical corrosion



certifications in progress

QUALITY AND SAEFTY

- » Rigorous quality control exceeding the highest international standards
- » Stringent raw material testing by a dedicated QC staff of over 700
- » Fully automated facilities certifiable to ISO 9001:2000 (Quality Management System) and ISO 14001:2004 (Environmental Management System)
- » IEC61646, Safety tested IEC61730, conformity to CE, UL listings:
- » UL1703, cULus, Class C fire rating
- » Industry leading warranty term

RECOMMENDED APPLICATIONS

Best for On-grid utility and commercial systems

80 Watt Maximum Power

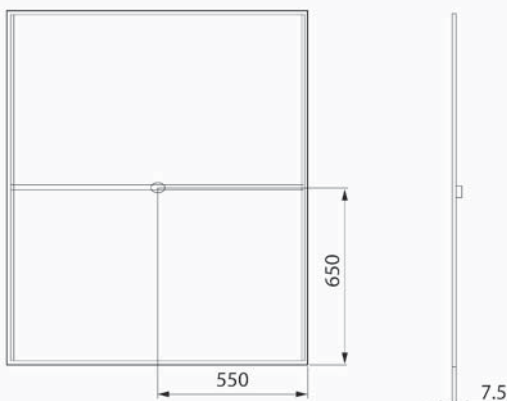
ELECTRICAL CHARACTERISTICS

Characteristics	STP080Ts-AA
Open-Circuit Voltage (Voc)	96.2
Optimum Operating Voltage (Vmp)	75.9
Short-Circuit Current (Isc)	1.41
Optimum Operating Current (Imp)	1.10
Maximum Power at STC (Pmax)	80
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	5A
Power Tolerance	±5%
STC: Irradiance 1000W/m ² Module temperature 25 AM=1.5	

MECHANICAL CHARACTERISTICS

Model Number	STP080Ts-AA
Cell type	a-Si
No. of Cells	106
Dimensions	1300x1100x7.5mm (51.2x43.3x0.3inch) (without junction box)
Weight	25kg (55 lbs)
Front Glass	3.2mm (0.13inch annealed glass)
Back Glass	3.2mm (0.13inch annealed glass)
Frame	Frameless
Junction Box	IP67 rated
Output Cables	RADOX SMART cable 4.0mm ² (0.006inch), symmetrical lengths (-) 750mm (29.5inch) and (+) 750mm (29.5inch) Connector: PV-KBT4 and PV-KST4

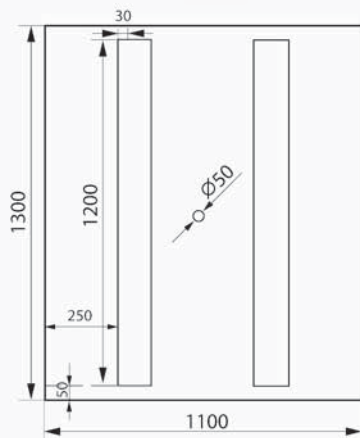
Back View



TEMPERATURE COEFFICIENTS

Nominal Operating Cell Temperature (NOCT)	45+2°C
Temperature Coefficient of Pmax	-0.20 %/°C
Temperature Coefficient of Voc	-0.30 %/°C
Temperature Coefficient of Isc	+0.10 %/°C
Preliminary specification only, data is subject to change without further notice	

Back View



Edge View



3D Back View

