

STP085S-12/Bb

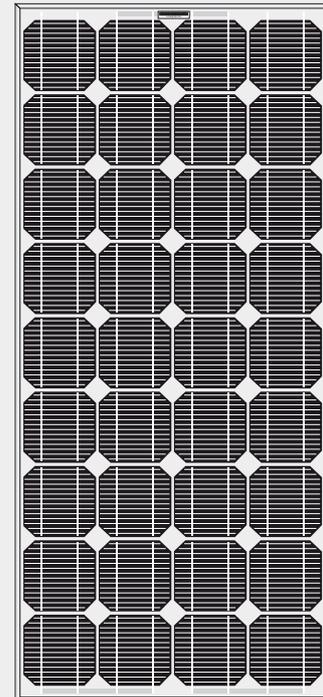
STP075S-12/Bb
STP080S-12/Bb

High Efficiency, High Quality
 PV Module

Suntech's STPBb features total efficiency of 13.1% Which delivers the maximum power output at peak hours. Ideal for off-grid and remote power systems. With a 25 year warranty, the module has high efficiency and long-lasting operating time even in a variety of rigorous conditions. Unique textured cell surface and bypass diode design is critical for the module to fully utilize and absorb sunlight and offer maximum usable power per square foot of solar array.

Features and benefits

- High efficiency
- Nominal 12 V DC for standard output
- Outstanding low-light performance
- High transparent low-iron, tempered glass
- Unique techniques give the panel following features: esthetic appearance, with stands high wind-pressure and snow load, and easy installation
- Unique technology ensure that problems of water freezing and warping do not occur
- Design to meet unique demand of customer
- 25 year module output warranty

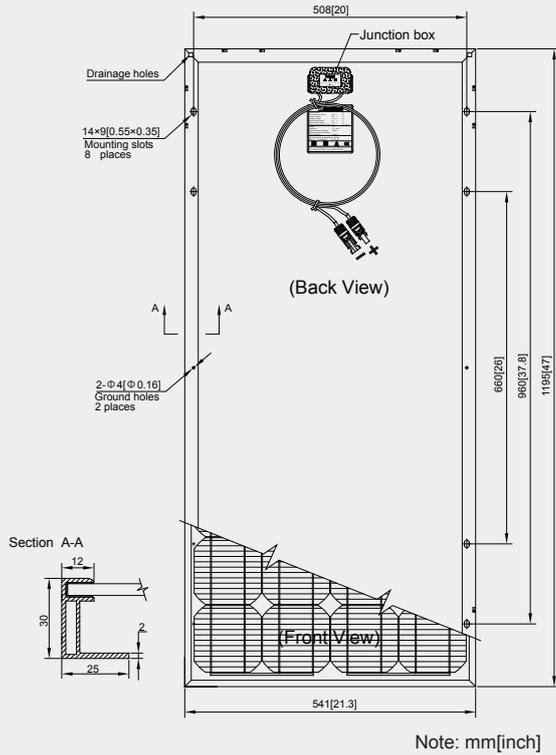


Electrical Characteristics

Model	STP085S-12/Bb	STP080S-12/Bb	STP075S-12/Bb
Open-circuit voltage (Voc)	22.2V	21.9V	21.7V
Optimum operating voltage (Vmp)	17.8V	17.5V	17.3V
Short-circuit current (Isc)	5.15A	4.95A	4.72A
Optimum operating current (Imp)	4.8A	4.58A	4.35A
Maximum power at STC (Pmax)	85Wp	80Wp	75Wp
Operating temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Maximum system voltage	715V DC	715V DC	715V DC

STC: Irradiance 1000W/m², Module temperature 25°C, AM=1.5

Module Diagram



Specifications

Cell	Monocrystalline silicon solar cells 125mm×125mm
No. of cells and connections	36(4×9)
Dimension of module	1195mm×541mm×30mm
Weight	8kg

Temperature Coefficients

NOCT	48°C±2°C
Short-circuit current temperature coefficient	0.020 %/K
Open-circuit voltage temperature coefficient	-0.34 %/K
Peak power temperature coefficient	-0.46 %/K
Power tolerance	±5%

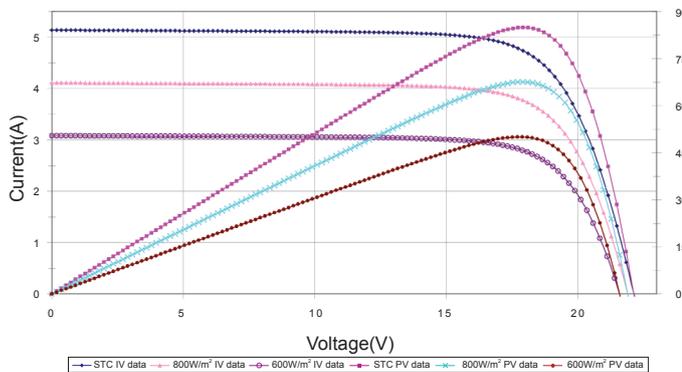
NOCT: Nominal Operating Cell Temperature
(data refer to STP080S)

Output

Cable	LAPP(4.0mm ²)
Lengths	750mm(-) and 750mm(+)
Connection	MC Plug Type IV

Characteristics

Module IV Graph 85W



Normalized Isc, Voc, Pmax vs. module temperature characteristics

