

BLACK LABEL™

STP160S-12/Ab-1 **STP165S-12/Ab-1**
STP170S-12/Ab-1 **STP175S-12/Ab-1**
STP180S-12/Ab-1

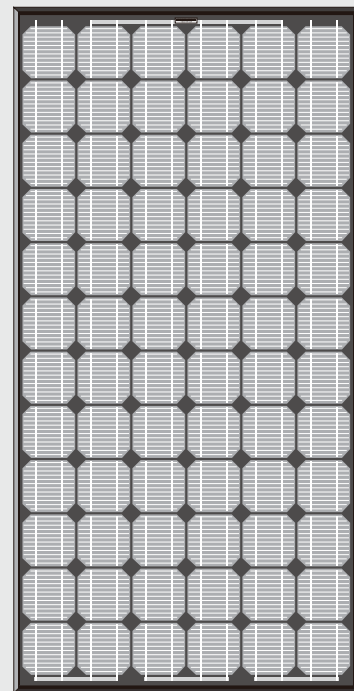
High Efficiency, High Quality
PV Module

Suntech Black Label modules are exclusively designed and engineered for homeowners who seek a rooftop solar solution that combines visual aesthetics with excellent efficiency.

Combining Suntech's black monocrystalline solar cells with a black back surface and a black aluminum frame, the Suntech Black Label series offers an elegant touch to your home's exterior. Our 25 year transferable power output warranty will ensure that the Suntech Black Label module will be a reliable, long-term investment choice for you and your family.

Features and benefits

- Aesthetic appearance with excellent efficiency
- Outstanding low-light performance
- High transparent low-iron, tempered glass
- Unique technologies give the panel the following features: high wind-pressure and snow load tolerance and easy installation
- Leading module sealing technology eliminates leakage and frame deformation
- May be customized to meet customer specifications
- 25 year transferable power output warranty
- Class C fire rating
- UL listings: UL1703, cULus
- ISO 9001: 2001 and ISO14000 certified facilities

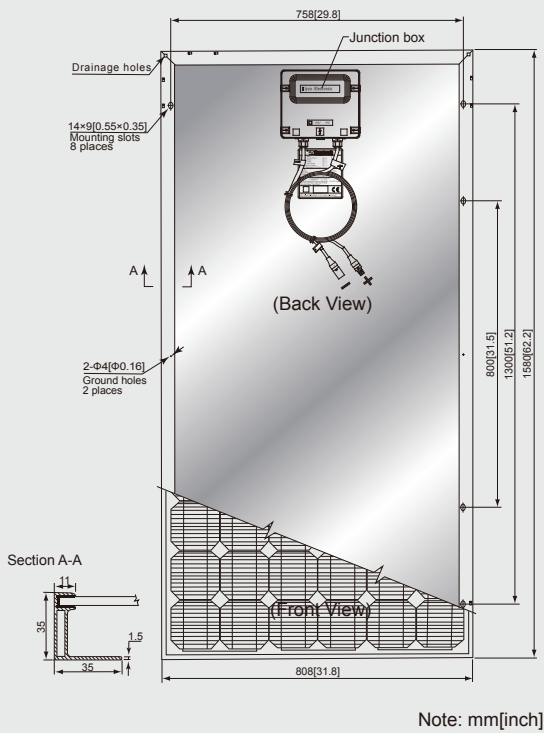


Electrical Characteristics

Model	STP180S-24/Ab-1	STP175S-24/Ab-1	STP170S-24/Ab-1	STP165S-24/Ab-1	STP160S-24/Ab-1
Open-circuit voltage (Voc)	44.4V	44.2V	43.8V	43.6V	43.2V
Optimum operating voltage (Vmp)	35.6V	35.2V	35.2V	34.8V	34.4V
Short-circuit current (Isc)	5.4A	5.2A	5.14A	5.04A	5A
Optimum operating current (Imp)	5.05A	4.95A	4.83A	4.74A	4.65A
Maximum power at STC (Pmax)	180Wp	175Wp	170Wp	165Wp	160Wp
Operating temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Maximum system voltage	600V DC	600V DC	600V DC	600V DC	600V DC
Series fuse rating	15 AMPS	15 AMPS	15 AMPS	15 AMPS	15 AMPS

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	72(6×12)
Dimension of module	1580mm×808mm×35mm
Weight	15.5kg

Temperature Coefficients

NOCT	45°C ± 2°C
Short-circuit current temperature coefficient	0.017 %/K
Open-circuit voltage temperature coefficient	-0.34 %/K
Peak power temperature coefficient	-0.48 %/K
Power tolerance	±3%

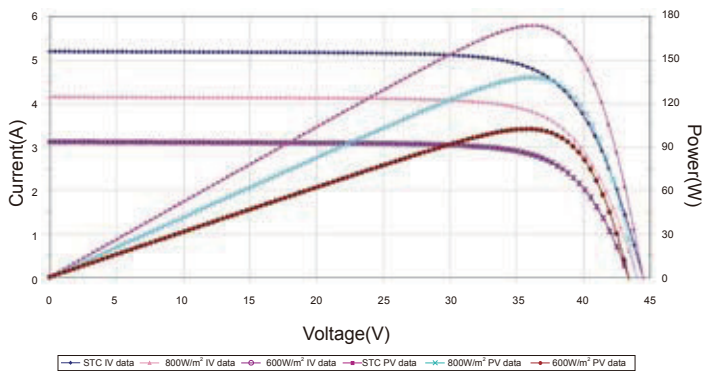
NOCT: Nominal Operating Cell Temperature
(data refer to STP165S)

Output

Cable	AIW (12AWG)
Lengths	1200mm(-) and 800mm(+)
Connection	MC Plug Type IV

Characteristics

Module IV Graph 170W



Normalized Isc, Voc, Pmax vs. module temperature characteristics

