



Solar powering a green future™



Off-Grid Module Product Catalog

Suntech's Solar Products



Suntech offers the widest range of off-grid solar panels (from 5W to 140W) designed for applications from telecommunications, water pumping, and instrumentation to solar lighting in remote and rural areas. These stand alone systems supply electricity to areas where there are no electrical grid transmission lines. Thousands of Suntech stand alone home systems are used in many developing countries like Indonesia bringing electricity and light to people living in remote villages.

Suntech is the world's largest crystalline silicon solar module manufacturer with more than 1.3GW of solar modules already installed worldwide. All products are designed according to IEC/UI standard* and manufactured in ISO9001 and ISO14001 certified production line. Suntech is also an active member of PVCycle — an independent PV industry association dedicated to establishing a take-back and recycling program for PV solar modules and their end-of-life waste. All Suntech off-grid module comes with 25-year power output warranty and 5-year materials and workmanship warranty. Please refer to Suntech standard module warranty for details.

*Please contact our local sales representative for details on product certification with TUV and UL.

Why Suntech?

- Broad product range, from 5W to 140W
- Lower NOCT and temperature coefficient
- Good performance in low irradiance environment
- Better product warranty term
- IEC and UL certified product*

Product Manual Series:

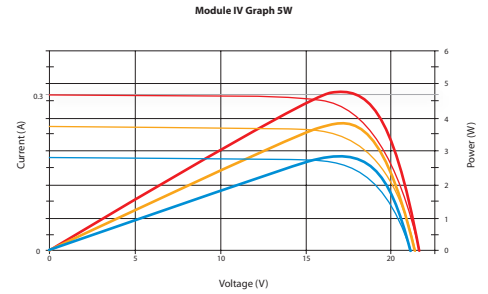
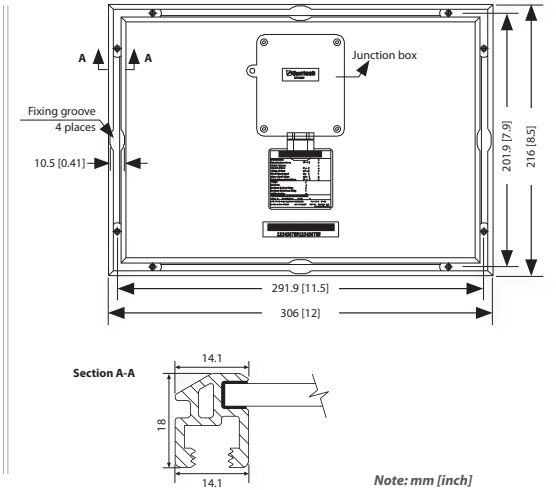
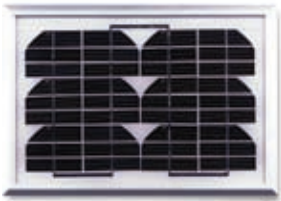
- 1 Standard Module Product Catalog
- 2 *Off-Grid Module Product Catalog*
- 3 Thin Film Module Product Catalog

SPECIFICATION CATEGORIES

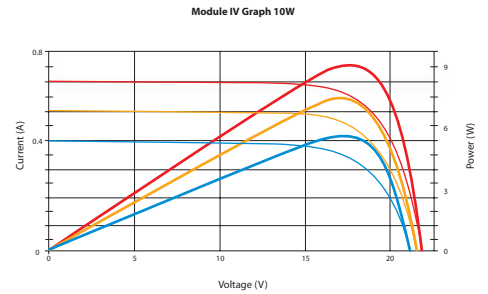
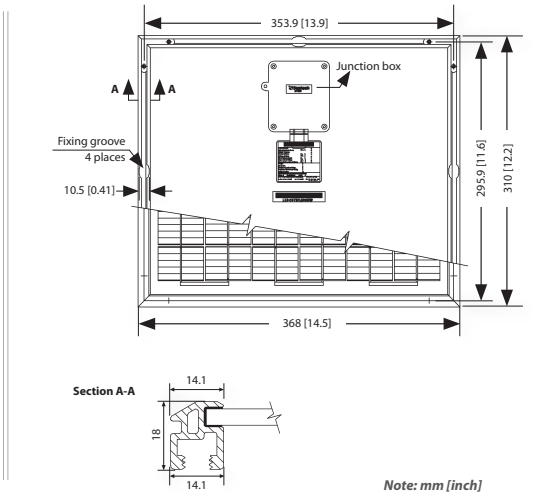
	Db Mono	Kb Poly	Cb Mono	Lb Poly	Rb Poly	Rb Poly	Md Poly	Sb Poly	Sb Poly	Sb Poly	Bb Mono	Bb Mono	Tb Poly	Tb Poly	Tb Poly
	STP005B -12/DEA	STP010D -12/KEA	STP020B -12/CEA	STP030D -12/LEA	STP040D -12/REA	STP045D -12/REA	STP055D -12/MEA	STP060D -12/SEA	STP070D -12/SEA	STP080B -12/BEA	STP085B -12/BEA	STP130D -12/TEA	STP135D -12/TEA	STP140D -12/TEA	
Open-Circuit Voltage (Voc)	21.6V	21.6V	21.7V	21.6V	21.8V	22.0V	21.8V	21.6V	22.0V	21.9V	22.2V	22.0V	22.3V	22.4V	
Optimum Operating Voltage (Vmp)	17.4V	17.4V	17.6V	17.2V	17.4V	17.6V	17.5V	17.4V	17.8V	17.5V	17.8V	17.4V	17.5V	17.6V	
Short-Circuit Current (Isc)	0.32A	0.65A	1.26A	1.94A	2.58A	2.79A	3.34A	3.90A	4.27A	4.95A	5.15A	8.09A	8.20A	8.33A	
Optimum Operating Current (Imp)	0.29A	0.57A	1.14A	1.74A	2.30A	2.58A	3.14A	3.45A	3.93A	4.58A	4.80A	7.47A	7.71A	7.95A	
Maximum Power at STC (Pmax)	5Wp	10Wp	20Wp	30Wp	40Wp	45Wp	55Wp	60Wp	70Wp	80Wp	85Wp	130Wp	135Wp	140Wp	
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	-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	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	
Maximum System Voltage	715V DC	715V DC	715V DC	715V DC	715V DC	715V DC	715V DC	715V DC	715V DC	715V DC	715V DC	1000V DC	1000V DC	1000V DC	
Maximum Series Fuse Rating	5A	5A	5A	5A	10A	10A	10A	15A	15A	15A	15A	20A	20A	20A	
Power Tolerance	±10%	±10%	±10%	±10%	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%	
Solar Cell	Mono-crystalline solar cell	Poly-crystalline solar cell	Mono-crystalline solar cell	Poly-crystalline solar cell	Poly-crystalline solar cell	Poly-crystalline solar cell	Poly-crystalline solar cell	Poly-crystalline solar cell	Poly-crystalline solar cell	Mono-crystalline solar cell	Mono-crystalline solar cell	Poly-crystalline solar cell	Poly-crystalline solar cell	Poly-crystalline solar cell	
No. of Cells	36 (4x9)	36 (6x6)	36 (2x18)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	
Dimensions	216 × 306 × 18 mm	310 × 368 × 18 mm	656 × 306 × 18 mm	426 × 680 × 18 mm	537 × 665 × 30 mm	537 × 665 × 30 mm	631 × 665 × 30 mm	771 × 665 × 30 mm	771 × 665 × 30 mm	1195 × 541 × 30 mm	1195 × 541 × 30 mm	1482 × 676 × 35 mm	1482 × 676 × 35 mm	1482 × 676 × 35 mm	
Weight	0.8 kgs	1.5 kgs	2.5 kgs	3.2 kgs	4.5 kgs	4.5 kgs	6.4 kgs	6.2 kgs	6.2 kgs	8.0 kgs	8.0 kgs	12.0 kgs	12.0 kgs	12.0 kgs	
Junction Box	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	IP65 rated	
Output Cables	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	Connection: MC Plug Type IV	Connection: MC Plug Type IV	Connection: MC Plug Type IV	Connection: MC Plug Type IV	Connection: MC Plug Type IV	
Nominal Operating Cell Temperature (NOCT)	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C	
Temp. coefficient of Pmax	-0.48 %/°C	-0.47 %/°C	-0.48 %/°C	-0.47 %/°C	-0.48 %/°C	-0.48 %/°C	-0.47 %/°C	-0.47 %/°C	-0.47 %/°C	-0.48 %/°C	-0.48 %/°C	-0.47 %/°C	-0.47 %/°C	-0.47 %/°C	
Temp. coefficient of Voc	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	
Temp. coefficient of Isc	0.037 %/°C	0.045 %/°C	0.037 %/°C	0.045 %/°C	0.037 %/°C	0.037 %/°C	0.045 %/°C	0.045 %/°C	0.045 %/°C	0.037 %/°C	0.037 %/°C	0.045 %/°C	0.045 %/°C	0.045 %/°C	

TEMP. CHARACTERISTICS

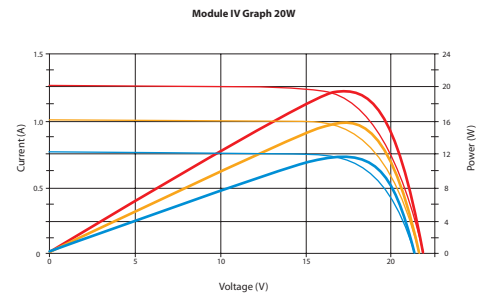
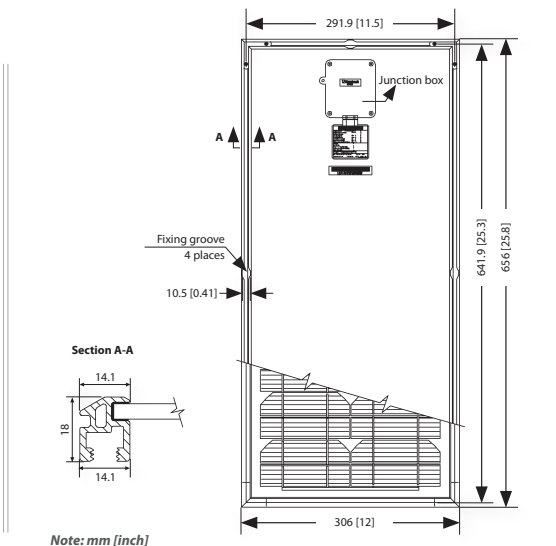
Db Mono STP005B-12/DEA



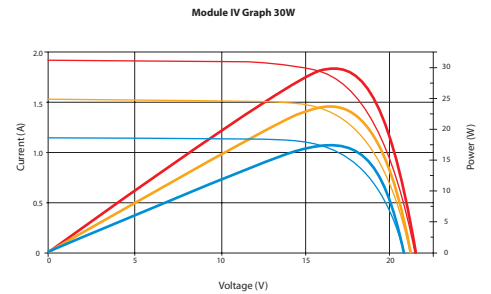
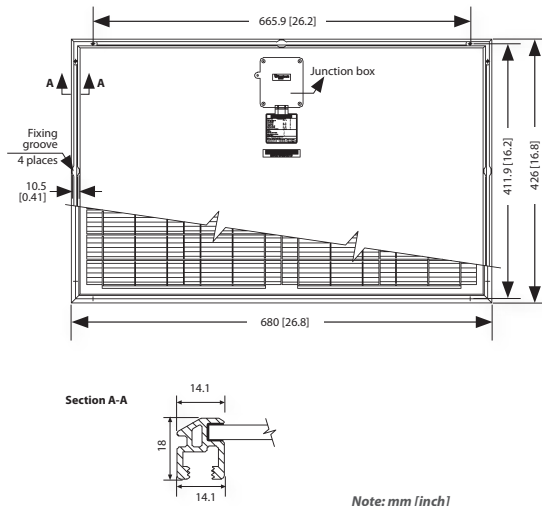
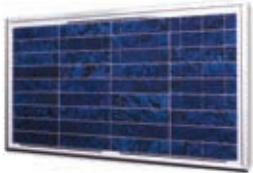
Kb Poly STP010D-12/KEA



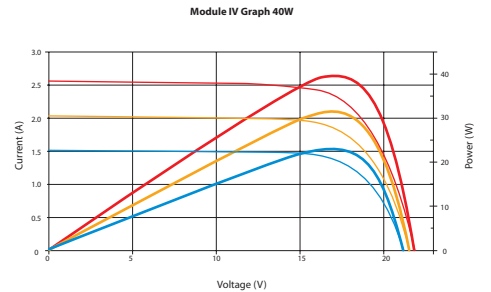
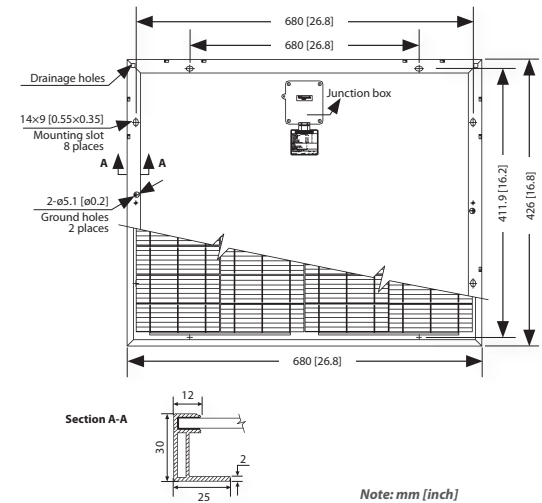
Cb Mono STP020B-12/CEA



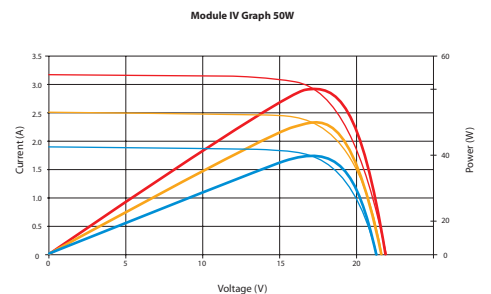
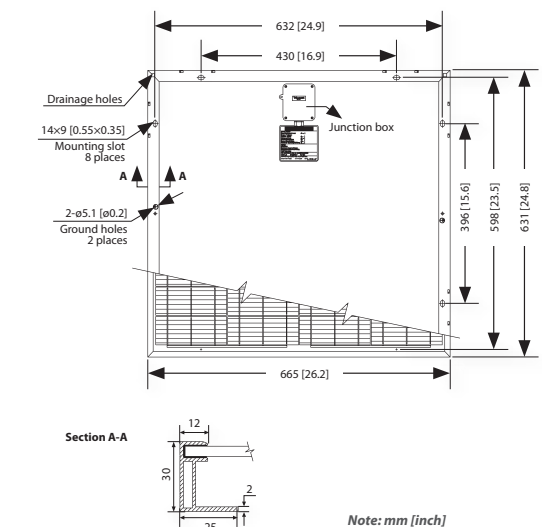
Lb Poly STP030D-12/LEA



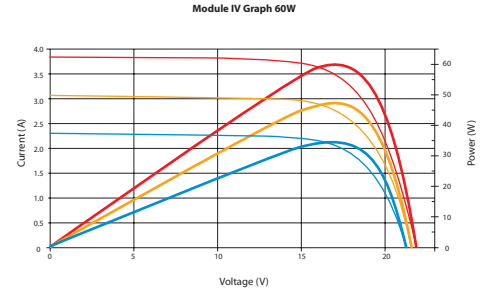
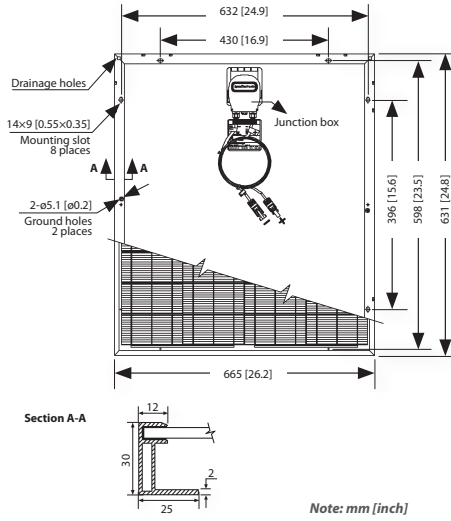
Rb Poly STP040D-12/REA



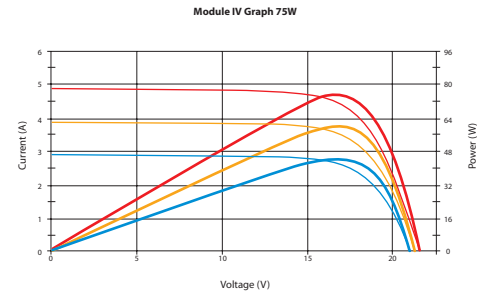
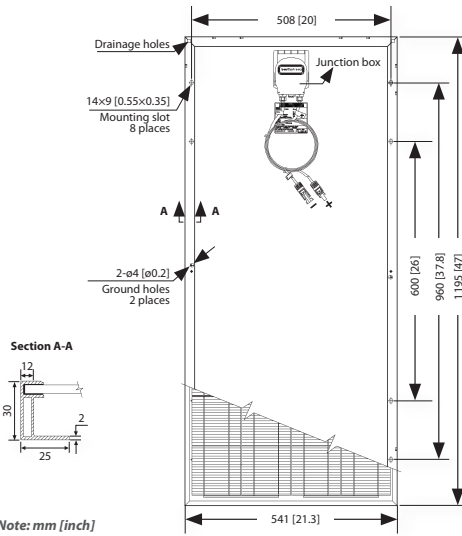
Md Poly STP050D-12/MEA



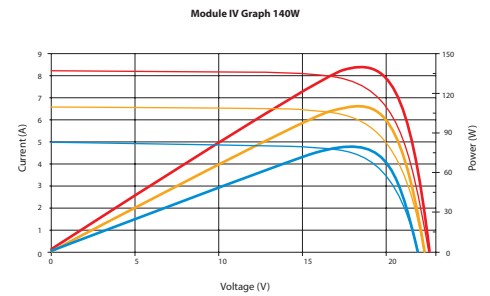
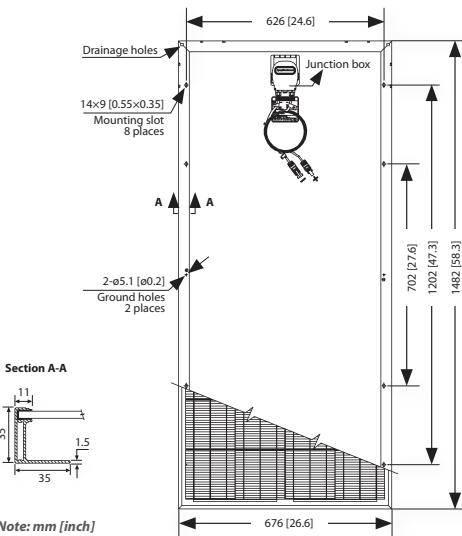
Sb Poly STP060D-12/SEA



Bb Mono STP080B-12/BEA



Tb Poly STP140D-12/TEA



Suntech Application Examples

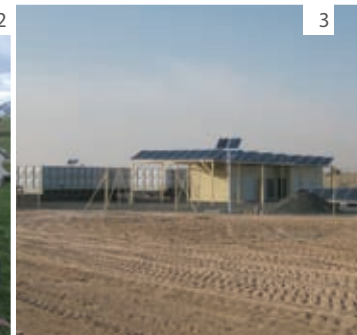
Meeting All Your Off-Grid Requirements



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11

1. Signal transferring station
2. Remote rural electrification
3. 43 kWp Solar powered water pumping and desalination system (43kWp in Dubai, UAE)
4. Road security and railroad signals systems

5. Solar powered lights, such as traffic lights, street lamp and etc
6. Medical and education facilities in rural areas
7. Pumping systems for irrigation, rural water supplies and livestock
8. Power source for vacation homes

9. Remote solar home systems (50 kWp in Indonesia)
10. Aviation directional lighting
11. Sailboat charging systems

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