



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 to suit for varied applications from telecommunications, water pumping, instrumentation, to solar lighting in remote area. Those stand alone systems supply electricity to area where grid infrastructure can not reach. Thousands of Suntech stand alone home systems are used in many developing countries like Indonesia and bring electricity and light to the village people.

As the world No.1 Crystalline Silicon solar module manufacturer, Suntech already delivered more than 1.3GW Solar module world wide in last several years. All products are manufactured in ISO9001 certified factory. Certified to ISO14001 proves that Suntech's production line are environmental friendly. Suntech is also an active member of PV-CYCLE — an independent PV industry association with specific purpose to establish a take-back and recycling program for end-of-life waste PV modules.

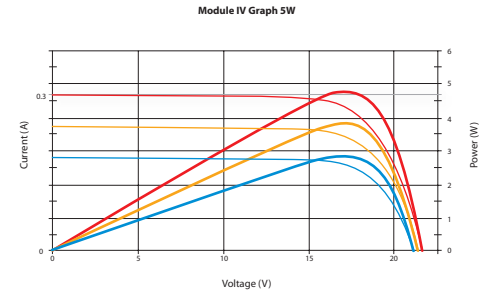
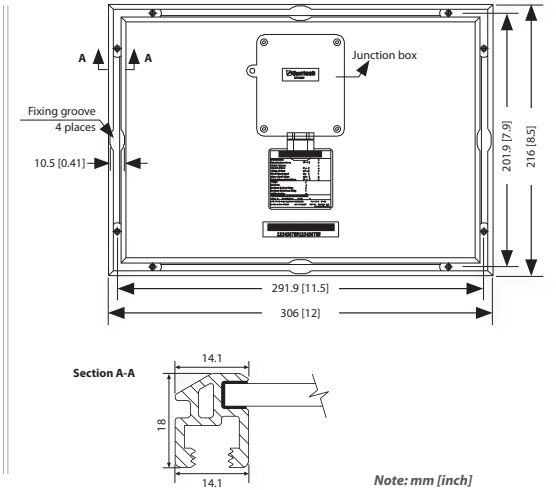
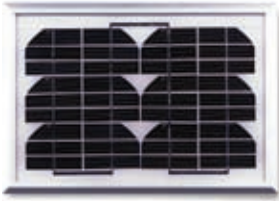
Product Manual Series:

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

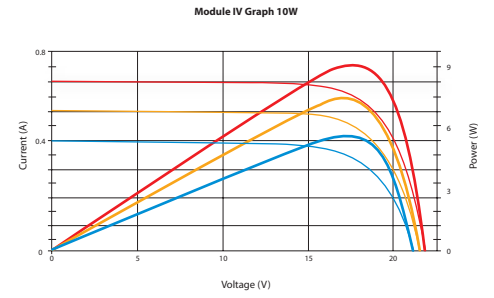
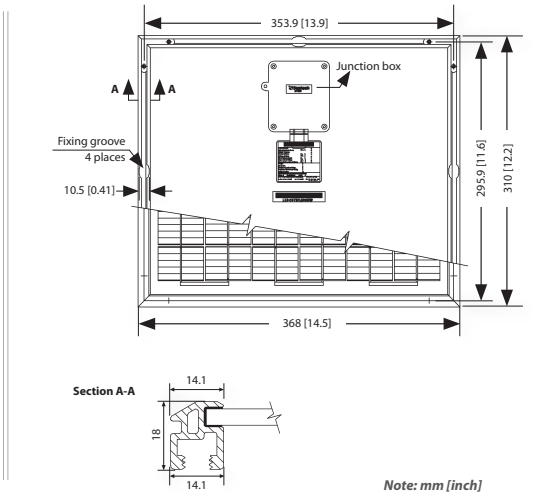
PARAMETER ITEMS	Db Mono	Kb Poly	Cb Mono	Lb Poly	Rb Poly	Rb Poly	Md Poly	Sb Poly	Sb Poly	Bb Mono	Bb Mono	Tb Poly	Tb Poly
	STP005B -12/DEA	STP010D -12/KEA	STP020B -12/CEA	STP030D -12/LEA	STP040D -12/REA	STP045D -12/REA	STP050D -12/MEA	STP060D -12/SEA	STP070D -12/SEA	STP080B -12/BEA	STP085B -12/BEA	STP130D -12/TEA	STP135D -12/TEA
Open-Circuit Voltage (Voc)	21.6V	21.6V	21.7V	21.6V	21.8V	22.0V	21.8V	21.8V	21.8V	21.9V	22.2V	22.0V	22.3V
Optimum Operating Voltage (Vmp)	17.4V	17.4V	17.6V	17.2V	17.4V	17.6V	17.5V	17.4V	17.6V	17.5V	17.8V	17.4V	17.5V
Short-Circuit Current (Isc)	0.32A	0.65A	1.26A	1.94A	2.58A	2.79A	3.34A	4.11A	4.27A	4.95A	5.15A	8.09A	8.20A
Optimum Operating Current (Imp)	0.29A	0.57A	1.14A	1.74A	2.30A	2.58A	3.14A	3.69A	3.93A	4.58A	4.80A	7.47A	7.95A
Maximum Power at STC (Pmax)	5 Wp	10 Wp	20 Wp	30 Wp	40 Wp	45 Wp	55 Wp	60 Wp	70 Wp	80 Wp	85 Wp	130 Wp	140 Wp
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
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
Maximum Series Fuse Rating	5 A	5 A	5 A	5 A	10 A	10 A	10 A	15 A	15 A	15 A	15 A	20 A	20 A
Power Tolerance	±10 %	±10 %	±10 %	±10 %	±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
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)
Dimensions	216 x 306 x 18 mm	310 x 368 x 18 mm	656 x 306 x 18 mm	426 x 680 x 18 mm	537 x 665 x 30 mm	537 x 665 x 30 mm	631 x 665 x 30 mm	771 x 665 x 30 mm	771 x 665 x 30 mm	1195 x 541 x 30 mm	1195 x 541 x 30 mm	1482 x 676 x 35 mm	1482 x 676 x 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
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
Output Cables	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	(Optional cable available)	HH-S (12 AWG) Lengths: 750mm(-) and 750mm(+)	HH-S (12 AWG) Lengths: 750mm(-) and 750mm(+)	HH-S (12 AWG) Lengths: 750mm(-) and 750mm(+)	HH-S (12 AWG) Lengths: 750mm(-) and 750mm(+)	HH-S (12 AWG) Lengths: 750mm(-) and 750mm(+)	HH-S (12 AWG) Lengths: 750mm(-) and 750mm(+)
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
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
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
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	0.045 %/°C	0.045 %/°C	0.045 %/°C

ELECTRICAL CHARACTERISTICS
MECHANICAL CHARACTERISTICS
TEMP. COEFFICIENT

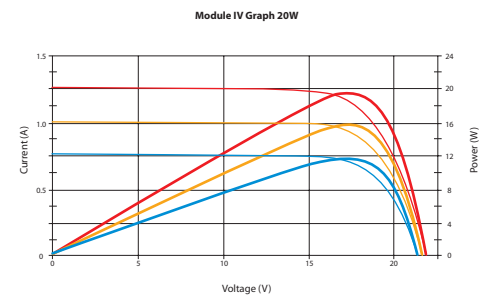
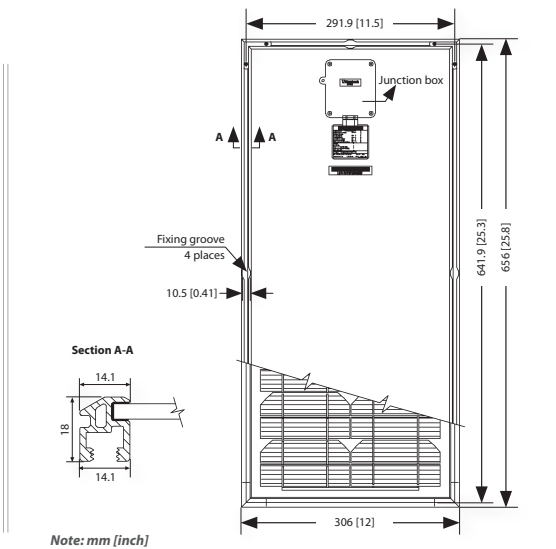
Db Mono STP005B-12/DEA



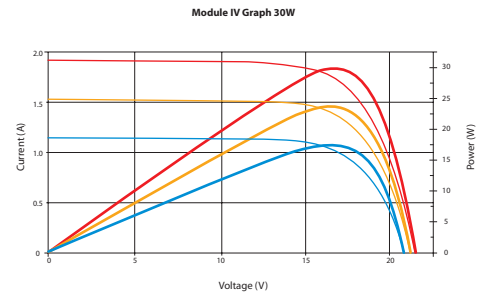
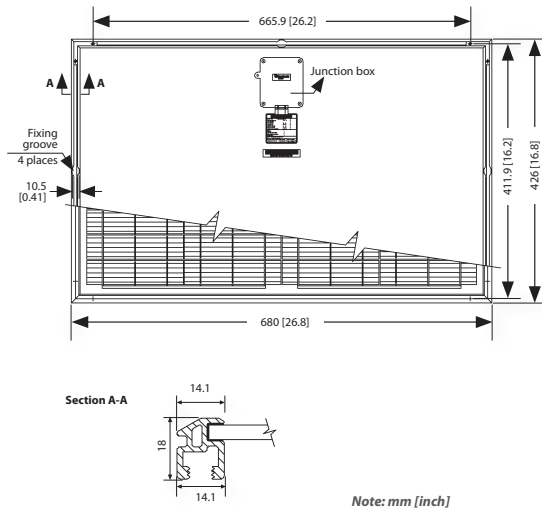
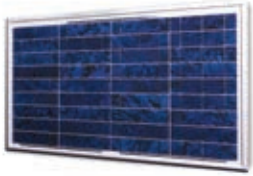
Kb Poly STP010D-12/KEA



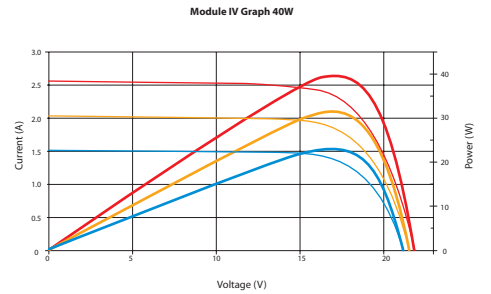
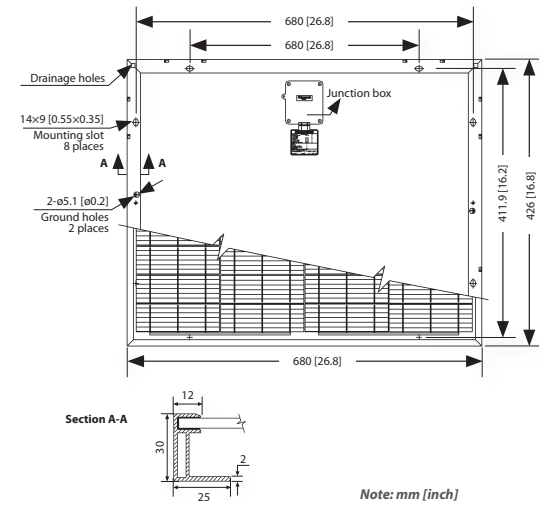
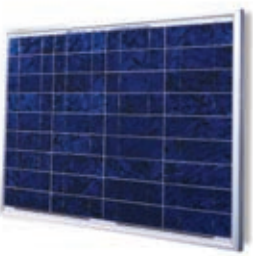
Cb Mono STP020B-12/CEA



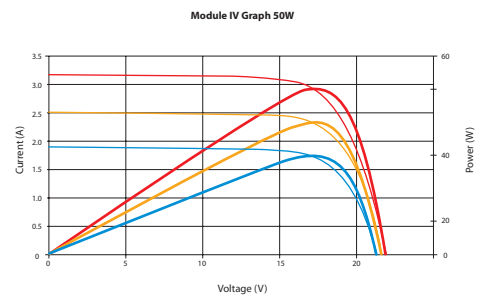
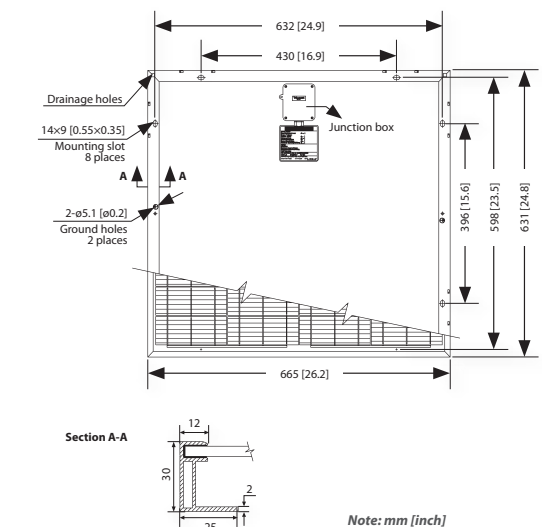
Lb Poly STP030D-12/LEA



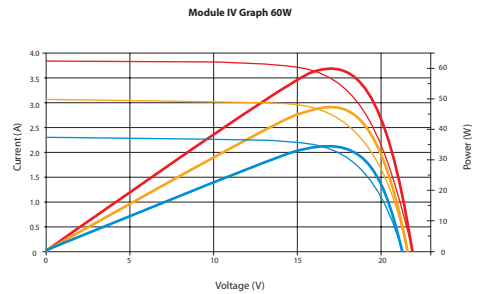
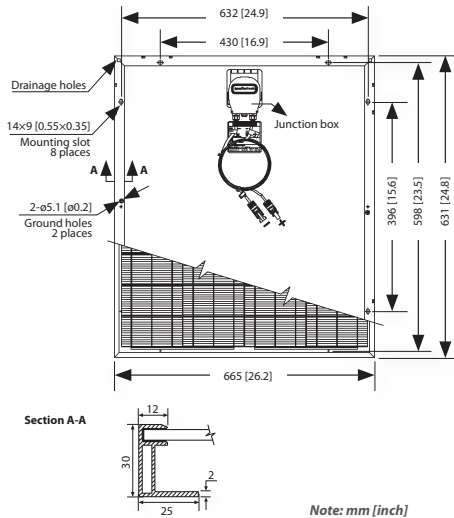
Rb Poly STP040D-12/REA



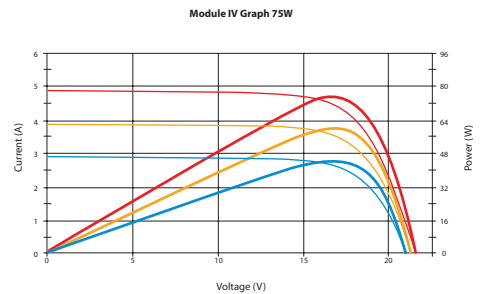
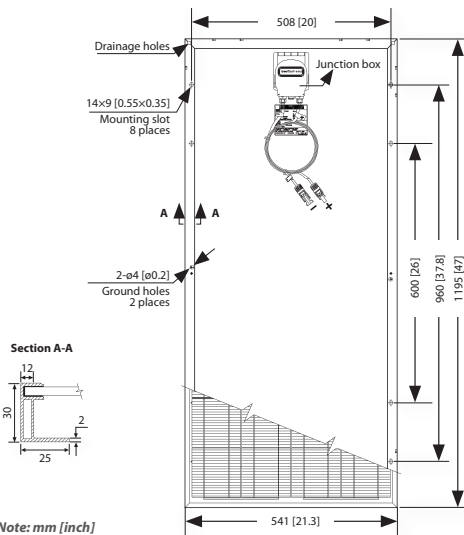
Md Poly STP050D-12/MEA



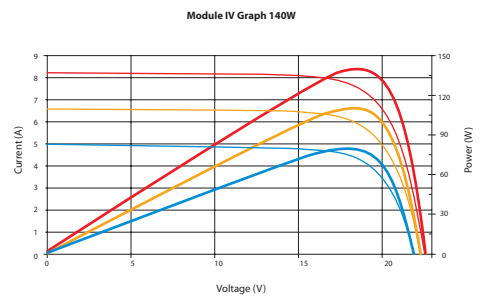
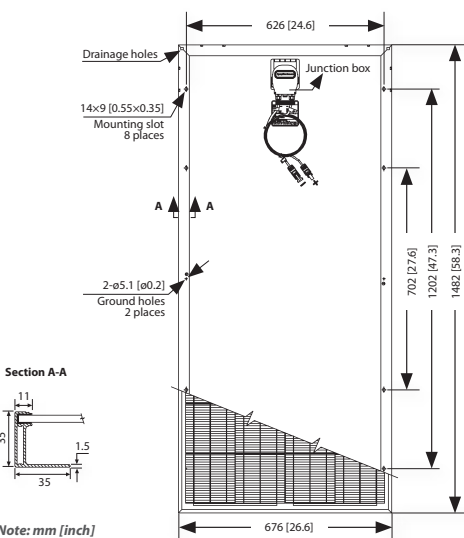
Sb Poly STP060D-12/SEA



Bb Mono STP080B-12/BEA



Tb Poly STP140D-12/TEA



Application Case Studies

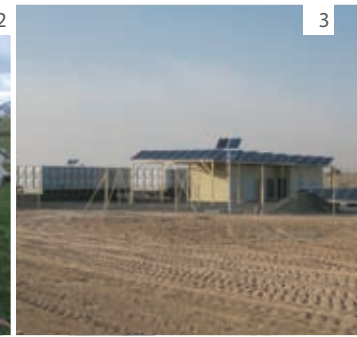
Our productions can power operations of wide range of application.



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11

1. Signal transferring station
2. Remote rural electrification
3. 43 kWp solar powered water pumping and desalination system, 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 watering

8. Power source for vacation homes
9. 50 Wp solar home system in Indonesia
10. Aviation obstruction lights
11. Sailboat charging systems

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