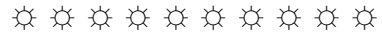


TEXAS SOLAR POWER COMPANY

1703 West Koenig Lane, Austin, Texas 78756
 Phone: (512) 459-9494 Fax: (512) 451-5934
 Toll Free: (866) 459-9494
 Web: txspc.com
 Email: info@txspc.com

Texas Solar Power Company (TXSPC) specializes in the design and installation of renewable energy systems. We provide an alternative, sustainable power source for residential, commercial and government clients. TXSPC offers outstanding service using high quality products delivered at competitive prices.



Photovoltaic (PV) is clean energy from the fuel source that belongs to all of us - the sun.



We carry everything you need for your renewable energy project. TXSPC is an authorized dealer of SolarWorld, Sharp Solar, and Kyocera modules as well as SMA and Fronius products. As technology in the renewable energy industry is dynamic, we are constantly evaluating new products and manufacturers to offer the best package to the environmentally and energy conscious public.



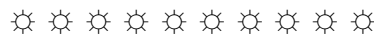
Our services are available around the world—wherever there is a need for photovoltaics.



Sales • Design • Installation

Owners Craig Overmiller, Architect, and Joe Garcia have been in the renewable energy field since 1995 helping home and business owners towards energy independence. The TXSPC team of designers and installers are committed to professional presentation and quality work.

Residential • Commercial



Texas Solar Power Company headquarters is a working example of integrating both a wind turbine as well as a hybrid grid-tie solar system.

- The 1st floor is an SMA Sunny Island grid-tie system with back-up batteries.
- The 3rd floor is an Outback stand-alone system.
- We also have two Air 403 wind generators on the roof for additional power.



Owner is
NABCEP Certified



At Texas Solar Power Company, YOU have the POWER.

SYSTEM SIZING 101

Before you begin to size a system for your existing home, Texas Solar Power Company recommends that you implement several energy management techniques:

- Change all incandescent and halogen light sources to compact fluorescent lighting. Home Depot is a great source for these indoor or outdoor lamps and fixtures. Most compact fluorescent lamps will fit into existing lamp sockets.
- Add additional insulation to your attic walls and floors where possible. Use pipe insulation on heated water pipes.
- Add shading devices and/or solar screens to your east, south, and west-facing windows. The south-facing screens you may want to take off in the winter for solar heat gain.
- Purchase only Energy Star rated appliances and air conditioning equipment.
- Use natural gas or propane appliances where possible for cooking, central heating, water heating, and your clothes dryer.

Determine your power needs:

If your system is tied to the grid, simply look at your electric bill to find the number of Kilowatt-hours (kWh) you use in a month. Remember that your summer bills may be higher than winter, or vice versa. Multiply your kWh by 1000 to get watts. Divide by 30.5 days per month, and then divide by 6 (or however many hours of good sunlight you expect your site to receive). Finally divide that number by the output of the solar module you intend to use (i.e. 175 watts) and your result is the number of modules you will need.

If your home is not connected to the utility grid, add up the amperage of all your anticipated electrical loads. Multiply this amperage by 120 (your AC voltage) to get your maximum wattage. Then divide by 4 to give you a rough idea of your hourly power needs.

Sizing a minimum battery bank:

Having a battery backup is essential if you're off the grid, but it can be a valuable accessory for your grid-tied home or business too. There are three important rules of electricity to remember for this discussion:

- Current is measured in amps, potential energy is measured in volts, and power is measured in watts. We find wattage by multiplying amps and volts. We can also find current by dividing watts by volts, and volts by dividing power by current.
- In order to add voltage, we connect batteries in *series* (negative to positive to negative, and so on). If we want a 48 volt system, we would connect four 12-volt batteries in series, or eight 6-volt batteries, for example. The amperage is not additive in series.
- In order to build current, we connect batteries in *parallel* (positive to positive, and negative to negative). If we want 200 amps per hour and we're using a 50 amp/hour battery, we need four rows of these batteries, connected in parallel. Voltage is not additive in parallel.

To determine how many batteries you would need, first calculate your average hourly watt needs, and divide by 120 volts AC to find amperage per hour. The minimum battery bank for off-grid use is typically designed for fourteen hours – the time from sundown to sunup. If you're on the utility grid, you need enough reserve to last through a power failure – usually four hours at most.

Your system can be 12, 24, or 48 volts DC. Of these, 48 volt is most common because of its greater efficiency. The type of system determines the multiple you will now find your DC amp/hour requirement. This multiple is 10 for a 12-volt system, 5 for 24-volt, and 2.5 for 48. So, multiply your amps per hour from the last paragraph (let's assume 10 amps/hour) by the multiple for your system (assume 48-volt) to get your DC amp/hours (25).

Select the deep-cycle battery you will be using and determine the reserve amps for that battery. Multiply your amps per hour (from above) by 14 hours. This gives your battery reserve amp required. Divide that by battery manufacturer reserve amps, and you will know how many rows of batteries in parallel you need.

The number of batteries in series in each row is determined by the battery voltage. Batteries are most commonly 6 or 12 volts. Divide the system voltage (12, 24, or 48) by the voltage of your batteries (6 or 12). This gives you the number of batteries per row.

Finally, multiply the number of batteries per row by the number of rows to find the total number of batteries.

EXAMPLE:

Let's say we're building an off-grid system. Our monthly energy requirement is 576.45 kWh.

$576.45 \text{ kWh} \times 1000 = 576,450 \text{ watts per month}$

$576,450 / 30.5 = 18,900 \text{ watts per day}$

$18,900 \text{ Watts} / 6 \text{ hours sunlight} = 3150 \text{ watts per hour (minimum)}$

Solar Modules:

Assume we're using a 175 watt 12 volt module:

$3150 / 175 = 18 \text{ modules}$

A 12 volt system would require all 8 modules to be wired in parallel

A 24 volt system requires 9 arrays, 2 panels each

48 volt is 5 arrays, 4 panels each (20 Modules are required; must be divisible by 4)

Batteries:

$18,900 \text{ watts per day} / 120 \text{ volts AC} = 158 \text{ amps per day}$

$158 \text{ amps} / 24 \text{ hours} = 6.58 \text{ amps per hour}$

Assume a 48 volt DC system, and a 12 volt 105 amp hour battery

$6.58 \text{ amps DC} \times 2.5 \text{ (48 volt multiplier)} = 16.46 \text{ amps}$

$16.48 \text{ amps} \times 14 \text{ hours} = 230.42 \text{ amps}$

$230.42 \text{ amps} / 105 \text{ amps} = 2.2 \text{ battery rows (Round up to 3)}$

$48 \text{ volt DC system} / 12 \text{ volt battery} = 4 \text{ batteries per row}$

$3 \text{ rows} \times 4 \text{ batteries} = 12 \text{ batteries total}$



**TEXAS SOLAR
POWER COMPANY**

1703 W. Koenig Ln. Austin, TX 78756
 Phone: 512-459-9494 Fax 512-451-5341
 Website: txspc.com
 Email: info@txspc.com

PROPOSAL

Proposal No.
Date: January 1, 2008

Sales Person: VG
Terms: 60 Days

To: PV Customer

Project: Battery Backup PV System
 3,500 DC Watts/ 3,220 AC Watts
 Based on Inverter Efficiency (92%)
 Turn-key Installation

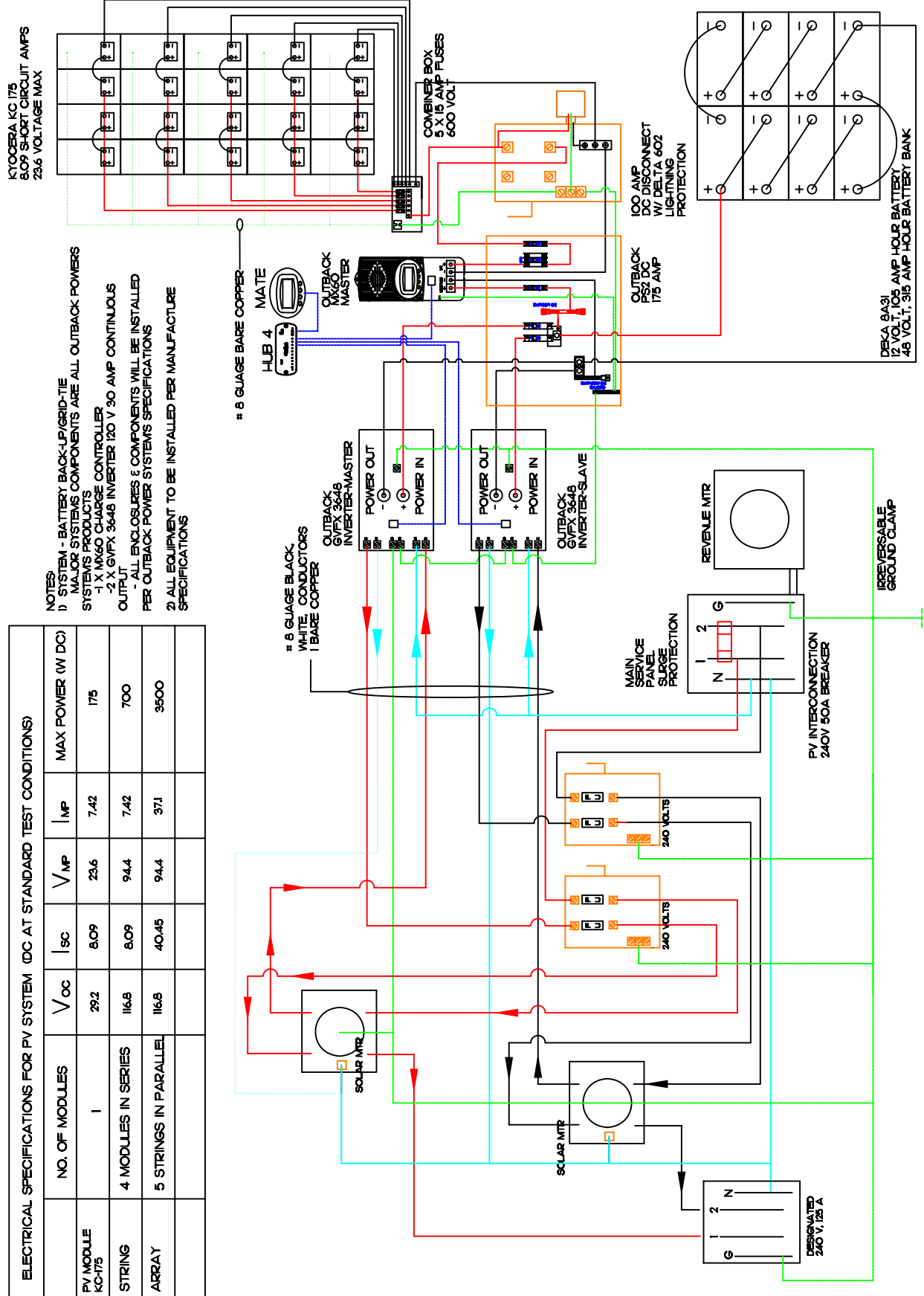
Item No.	Quantity	Description	Unit Price	Amount
1	20	Solar World, Suntech, or Kyocera 175W Solar Modules	\$780.00	\$15,600.00
2	1	Outback GFX 3648 Inverter Flexware	\$4,650.00	\$4,650.00
3	20	Array Frames	\$27.50	\$550.00
4	2	DC/AC Disconnect	\$115.00	\$230.00
5	1	20 amp Two pole Breaker	\$27.50	\$27.50
6	2	Combiner Box	\$65.00	\$130.00
7	1	Wire, Conduit and Connectors	\$595.00	\$595.00
8	4	Deka Solar (MK) 8A31 Battery	\$178.25	\$713.00
9	1	Battery Box	\$225.00	\$225.00
10				\$-
11				\$-
12				\$-
13				\$-
14				\$-
15				\$-
16				\$-
			Subtotal	\$22,720.50
			Sales Tax 0.08	\$1,874.44
			Labor	\$3,400.00
			Total	\$27,994.94
			Federal Tax Credit	\$8,398.48
			Post-Incentive Price	\$19,596.46

Terms Subject to Working Contract.
 If you have any questions concerning this proposal, call:
 Craig Overmiller, Secretary/Treasurer 512-459-9494

ELECTRICAL SPECIFICATIONS FOR PV SYSTEM (DC AT STANDARD TEST CONDITIONS)

	NO. OF MODULES	V _{OC}	I _{SC}	V _{MP}	I _{MP}	MAX POWER (W DC)
PV MODULE KC-175	1	292	8.09	23.6	7.42	175
STRING	4 MODULES IN SERIES	116.8	8.09	94.4	7.42	700
ARRAY	5 STRINGS IN PARALLEL	116.8	40.45	94.4	37.1	3500

- NOTES:
- SYSTEM - BATTERY BACK-UP/GRID-TIE MAJOR SYSTEMS COMPONENTS ARE ALL OUTBACK POWERS SYSTEMS PRODUCTS
 - 1 X MM60 CHARGE CONTROLLER
 - 2 X GVFX 3648 INVERTER (20 V 30 AMP CONTINUOUS OUTPUT)
 - ALL ENCLOSURES & COMPONENTS WILL BE INSTALLED PER OUTBACK POWER SYSTEMS SPECIFICATIONS
 - ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURE SPECIFICATIONS



TEXAS SOLAR POWER COMPANY



This is an example of a 3kw system consisting of 18 panels @ 175 watt each.

This is an example of the components used to tie into your standard power grid.

These will be added (l to r):

1. DC Disconnect
2. Inverter
3. AC Disconnect
4. PV Meter

These are pre-existing on your home:

5. Breaker Box, or Load Center
6. Revenue Meter



The FLEXware System

FLEXware is the latest example of OutBack's continuous efforts to bring you the most value packed and technologically advanced products available.

Our integrating partners, dealers, installers, and system owners spoke—and we listened. The resulting FLEXware is the most integrated, modular, and spacious installation system OutBack has ever designed. Its components are more versatile, the wiring space is larger, and the all-aluminum, powder-coated construction not only resists corrosion longer, but is lighter and easier to handle than our previous steel construction. OutBack's new FLEXware makes for a great looking installation that will continue to look great for years.

Designed to work as a modular “building block” architecture, FLEXware offers more versatility than ever before. From single inverter back-up systems to a multiple inverter village power system, FLEXware is the solution.

The FLEXware 250 offers the lowest cost solution for single inverter/charger installations when space and budget are primary concerns.

The FLEXware 500 supports up to two inverter/chargers and two charge controllers in an attractive, versatile and code-compliant package when more power is needed.

The FLEXware 1000 accommodates up to four inverter/chargers and four charge controllers. It can also be used for large systems with multiple power panels for systems up to 36 kW.

Both the FLEXware 500 and FLEXware 1000 systems provide ample locations for additional breakers, DC current shunts, an auto-transformer and other components required in higher kW systems.

The new FLEXware MP (mounting plate) shows the versatility of the FLEXware system with its compatibility with both the FLEXware 500 and FLEXware 1000 systems.

All of the FLEXware options have also been simplified, making the design, ordering and installation of power systems easier than ever.



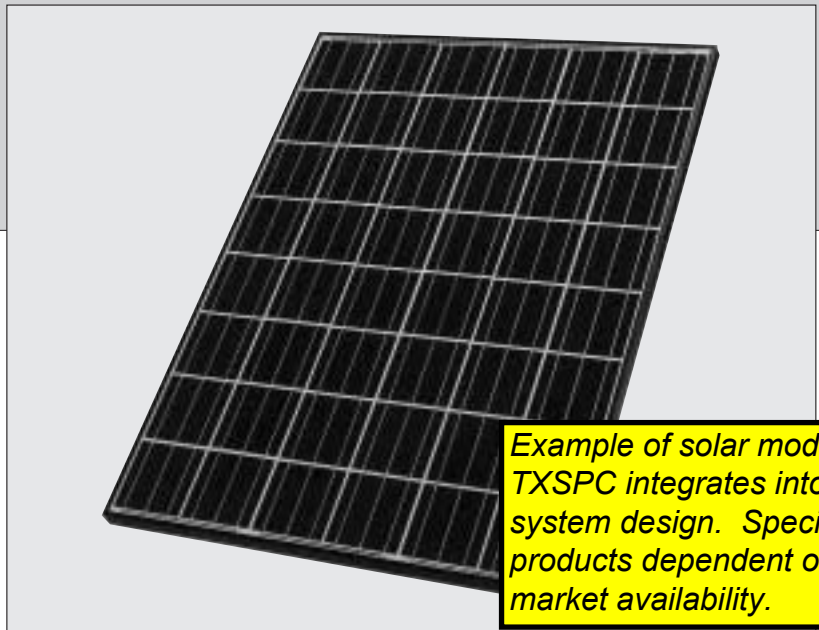
 FLEXware™

THE NEW VALUE FRONTIER



KC175GT

HIGH EFFICIENCY
MULTICRYSTAL
PHOTOVOLTAIC
MODULE



Example of solar module TXSPC integrates into PV system design. Specific products dependent on market availability.

HIGHLIGHTS OF KYOCERA PHOTOVOLTAIC MODULES

Kyocera's advanced cell processing technology and automated production facilities produce a highly efficient multicrystal photovoltaic module.

The conversion efficiency of the Kyocera solar cell is over 16%.

These cells are encapsulated between a tempered glass cover and a pottant with PVF back sheet to provide efficient protection from the severest environmental conditions.

The entire laminate is installed in an anodized aluminum frame to provide structural strength and ease of installation. Equipped with plug-in connectors.

APPLICATIONS

KC175GT is ideal for grid tie system applications.

- Residential roof top systems
- Large commercial grid tie systems
- Water Pumping systems
- High Voltage stand alone systems

QUALIFICATIONS

■ **MODULE**
UL1703 certified

■ **FACTORY**
ISO9001 and ISO14001

PERFORMANCE WARRANTY

1 year limited warranty on material and workmanship

25 year* limited warranty on power output

SPECIFICATIONS

■ Electrical Specifications

MODEL	KC175GT
Maximum Power	175Watts
Tolerance	+10% / -5%
Maximum Power Voltage	23.6Volts
Maximum Power Current	7.42Amps
Open Circuit Voltage	29.2Volts
Short-Circuit Current	8.09Amps
Length	1290mm (50.8in.)
Width	990mm (39.0in.)
Depth	36mm (1.4in.)
Weight	16.0kg (35.3lbs.)

■ Thermal parameters

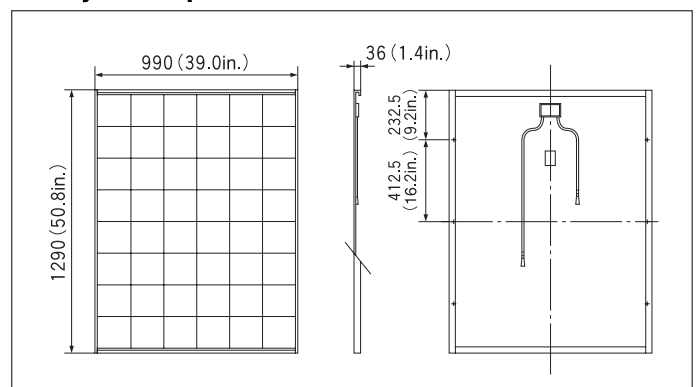
Nominal Operating Cell Temperature	47°C
Isc Current temperature coefficient	(3.18×10^{-3}) A/°C
Voc Voltage temperature coefficient	(-1.09×10^{-1}) V/°C

Note: The electrical specifications are under test conditions of Irradiance of 1kw/m^2 , Spectrum of 1.5 air mass and cell temperature of 25°C

Kyocera reserves the right to modify these specifications without notice.

■ Physical Specifications

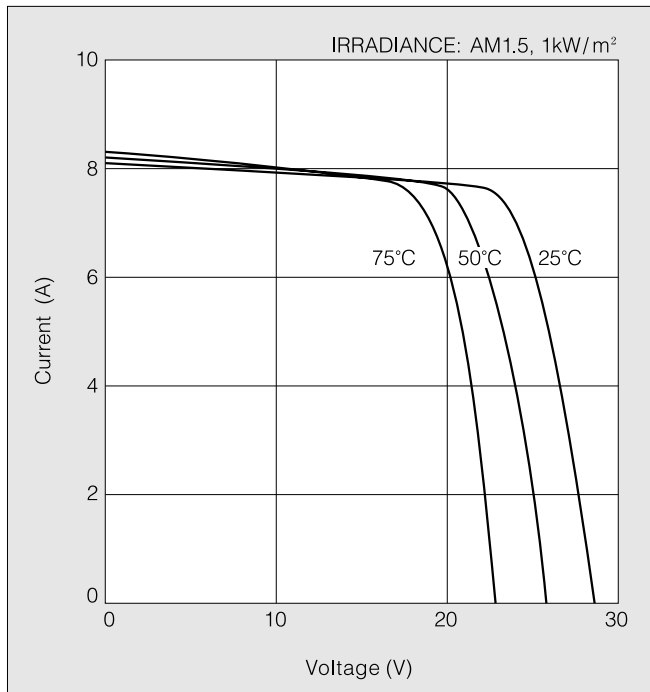
(Unit: mm)



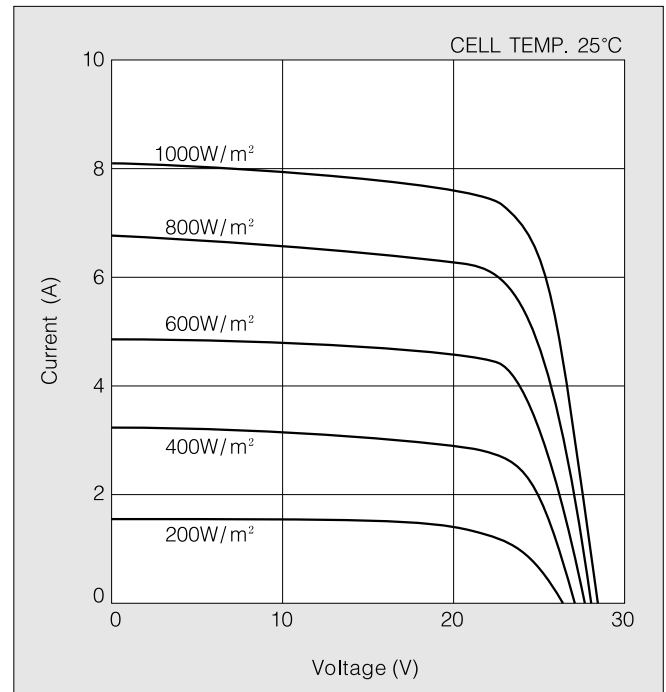
*(Long term output warranty shall guarantee that loss of output is not more than 10% of the minimum warranty value of the product specifications within 12 years and is not more than 20% within 25 years after the purchase of the product by customer. The output values shall be those measured under Kyocera standard measurement conditions. Regarding the warranty conditions in detail, please refer to Warranty issued by Kyocera.)

ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics of Photovoltaic Module KC175GT at various cell temperatures



Current-Voltage characteristics of Photovoltaic Module KC175GT at various irradiance levels



QUALITY ASSURANCE

Kyocera multicrystal photovoltaic modules have passed the following tests.

- Thermal cycling test
- Thermal shock test
- Thermal/ Freezing and high humidity cycling test
- Electrical isolation test
- Hail impact test
- Mechanical, wind and twist loading test
- Salt mist test
- Light and water-exposure test
- Field exposure test

Please contact our office to obtain details without hesitation.



KYOCERA Corporation

■ KYOCERA Head Office

CORPORATE SOLAR ENERGY DIVISION
6 Takeda Tobadono-cho
Fushimi-ku, Kyoto
612-8501 Japan
Phone:(81)75-604-3476 Telefax:(81)75-604-3475
<http://www.kyocera.com>

● KYOCERA Solar, Inc.

7812 East Acoma Drive
Scottsdale, AZ 85260
Phone:(480)948-8003 or (800)223-9580 Telefax:(480)483-6431
<http://www.kyocerasolar.com>

● KYOCERA Solar do Brasil Ltda.

Energia Renovavel LTDA,
Rua Maurisio da Costa Faria, 85
22780-280, Recreio, Rio da Janeiro, Brazil
Phone:(55)21-2437-8525 Telefax:(55)21-2437-2338
<http://www.kyocerasolar.com.br>

● KYOCERA Solar Pty Ltd.

Cnr Forbes & Riverside Drive, West End,
QLD 4101, Australia
Phone:(61)7-3844-6686 Telefax:(61)7-3844-8569
<http://www.kyocerasolar.com.au/>

● KYOCERA Fineceramics GmbH

Fritz Muller strasse 107, D-73730 Esslingen, Germany
Phone:(49)711-9393417 Telefax:(49)711-9393450
<http://www.kyocerasolar.de/>

● KYOCERA Asia Pacific Pte. Ltd.

298 Tiong Bahru Road, #13-03/05
Central Plaza, Singapore 168730
Phone:(65)271-0500 Telefax:(65)271-0600

● KYOCERA Asia Pacific Ltd.

Room 803, Tower 1 South Seas Centre, 75 Mody Road,
Tsimshatsui East, Kowloon, Hong Kong
Phone:(852)2-7237183 Telefax:(852)2-7244501

● KYOCERA Asia Pacific Ltd. Taipei Office

10 FL., No.66, Nanking West Road, Taipei, Taiwan
Phone:(886)2-2555-3609 Telefax:(886)2-2559-4131

● KYOCERA(Tianjin) Sales & Trading Corporation

Binjiang International Hotel 1106
105 Jianshe Road Heping Dist, Tianjin China
Tel:(22)2331-8590 Fax:(22)2330-6276

Example of solar module TXSPC integrates into PV system design. Specific products dependent on market availability.



Length 63.39 in (1610 mm)
Width 31.89 in (810 mm)
Height 1.34 in (34 mm)
Frame Aluminium
Weight 33 lbs (15 kg)

Sunmodule

SW 155/165/175 mono

The Sunmodule Plus heralds an innovative new module concept from SolarWorld AG. The fully automated production process at the SolarWorld factories creates a quality of module that is consistently high, which in turn will ensure high yields for the long term.

The module frame and the glass it surrounds are firmly attached to each other by silicone that is applied with continuous precision. This guarantees exceptional rigidity for the entire module and stops any possible loosening of the frame as a result of strong outward forces in cases such as sliding of heavy snow. Tests carried out in accordance with IEC 61215, applying loads up to 5.4 kN/m², confirm that the module can withstand heavy accumulations of snow and ice.

The patented, flat and compact junction box provides perfect protection against corrosion, as well as a capacity to rapidly rid itself of any excess heat providing high temperature handling. The junction box is reliably connected by a solid, welded bond to guarantee lasting functionality. In addition, high-quality, robust cables with factoryequipped connectors are used. The ability to recycle the modules and a 25-year performance warranty are the finishing touches to this top-quality concept.



Sunmodule

SW 155/165/175 mono

Performance under standard test conditions

		SW 155	SW 165	SW 175
Maximum power	P_{max}	155 Wp	165 Wp	175 Wp
Open circuit voltage	V_{oc}	43.6 V	44.0 V	44.4 V
Maximum power point voltage	V_{mpp}	34.8 V	35.3 V	35.8 V
Short circuit current	I_{sc}	4.90 A	5.10 A	5.30 A
Maximum power point current	I_{mpp}	4.46 A	4.68 A	4.89 A

Performance at 800 W/m², NOCT, AM 1.5

		SW 155	SW 165	SW 175
Maximum power	P_{max}	110.8 Wp	118.0 Wp	125.1 Wp
Open circuit voltage	V_{oc}	39.4 V	39.8 V	40.2 V
Maximum power point voltage	V_{mpp}	31.2 V	31.6 V	32.1 V
Short circuit current	I_{sc}	4.05 A	4.22 A	4.38 A
Maximum power point current	I_{mpp}	3.55 A	3.73 A	3.90 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 95% (+/- 3%) of the STC efficiency (1000 W/m²) is achieved.

Component materials

Cells per module	72
Cell type	monocrystalline silicon
Cell dimensions	125 x 125 mm ²

System integration parameters

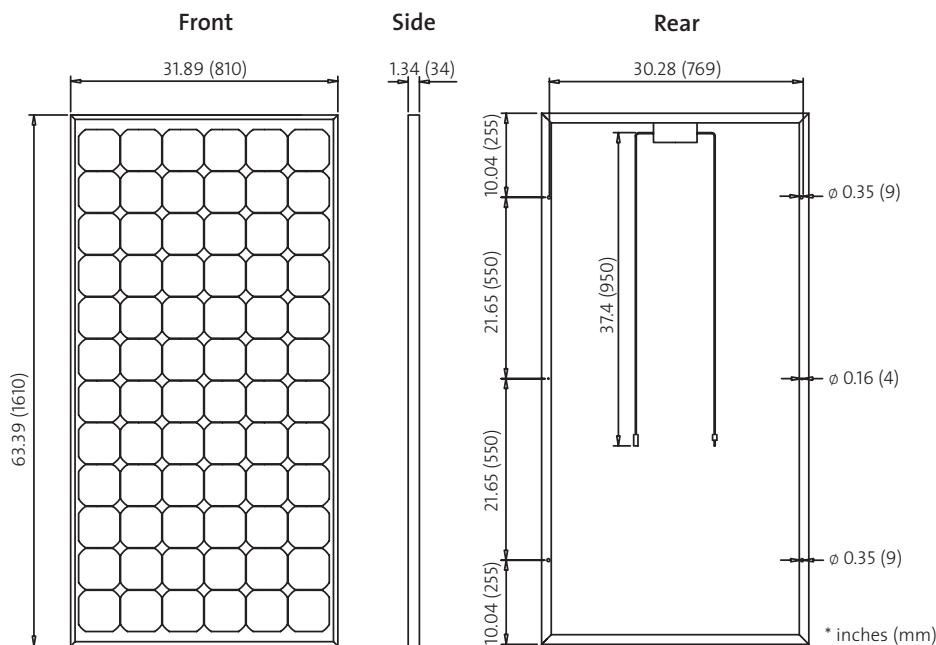
Maximum system voltage SC II	1,000 V _{DC}
Maximum system voltage USA NEC	600 V _{DC}
Maximum series fuse rating	15 A

Thermal characteristics

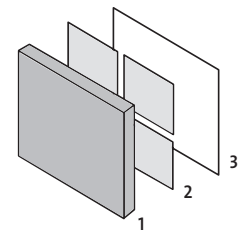
NOCT	46°C
TC I_{sc}	0.036 %/K
TC V_{oc}	-0.33 %/K

Additional data

Power tolerance	+/- 3 %
Junction box	IP 65
Connector	MC type 4



Construction



- 1] Front: tempered glass
- 2] crystalline solar cells embedded in EVA (ethylene-vinyl-acetate)
- 3] Rear: Tedlar

Modules certified in accordance with:



SolarWorld AG reserves the right to make specification changes without notice.
This data sheet complies with the requirements of EN 50380.

SunTech Power

STP 175/170/165/160S-24/Ab-1



Performance

- High power tolerance (+/- 3 %)
- 72 cell monocrystalline
- Nominal 24 V

Built for long service life

- Cells embedded in EVA (ethylene vinyl acetate)
- Transmissive low-iron, tempered glass on the front
- Weather and waterproof film back
- High strength frame

Simple installation

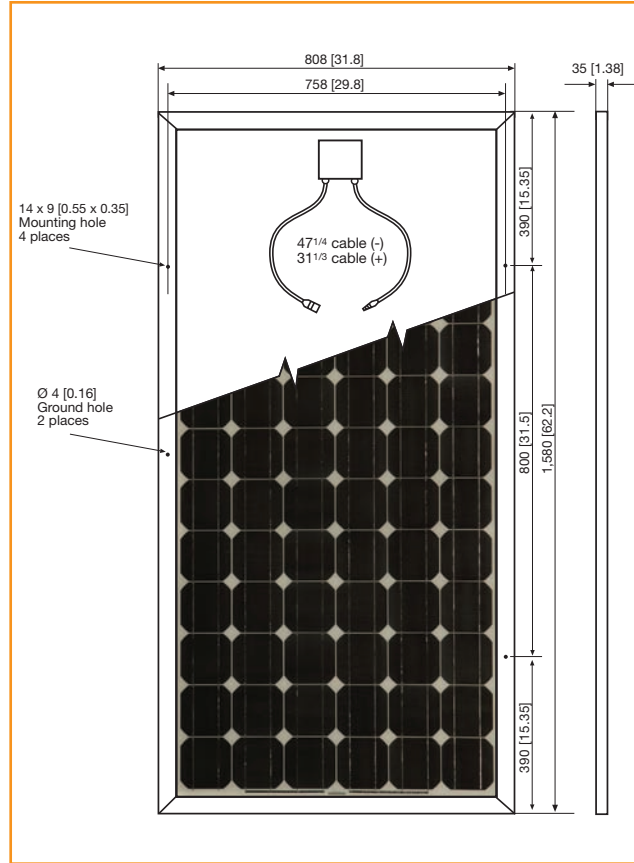
- Polarized Multi-Contact DC-rated waterproof connectors
- Clear anodized aluminum frame with pre-drilled holes

High quality standards

- Optical, mechanical and electrical module testing during and post-production
- Automated production line ensures consistently high level of product quality

Warranties and certifications

- 2 year product warranty
- 12 year warranty on 90 % of the minimum output
- 25 year warranty on 80 % of the minimum output
- UL 1703



	STP 175S-24/Ab-1	STP 170S-24/Ab-1	STP 165S-24/Ab-1	STP 160S-24/Ab-1
Maximum output (Pmax)	175 W	170 W	165 W	160 W
Tolerance of the power (+/-)	3 %	3 %	3 %	3 %
Maximum power voltage (Vmp)	35.2 V	35.2 V	34.8 V	34.4 V
Maximum power current (Imp)	4.95 A	4.83 A	4.74 A	4.65 A
Open-circuit voltage (Voc)	44.2 V	43.8 V	43.6 V	43.2 V
Short-circuit current (Isc)	5.20 A	5.14 A	5.04 A	5.00 A
Temperature coefficient (Pmax)	-0.5 %/°C	-0.5 %/°C	-0.5 %/°C	-0.5 %/°C
Temperature coefficient (Voc)	-0.155 V/°C	-0.155 V/°C	-0.155 V/°C	-0.155 V/°C
Temperature coefficient (Isc)	3 mA/°C	3 mA/°C	3 mA/°C	3 mA/°C
Maximum series fuse rating	8 A	8 A	8 A	8 A
Maximum system voltage	600 V	600 V	600 V	600 V

Applies to all modules:

Module dimensions (L x W x H)	62.2 x 31.8 x 1.38 inch (1,580 x 808 x 35 mm)
Weight	34.2 lbs/15.5 kg

Available from:

Example of battery TXSPC integrates into PV system design. Specific products dependent on market availability.

8A31

SPECIFICATIONS

Nominal Voltage (V)	12V
Capacity at C/100	116.2Ah
Weight	69 (31.3 kg)
Plate Alloy	Lead Calcium
Posts	Forged terminals & bushings
Container/Cover	Polypropylene
Operating Temperature Range	-40°F (-40°C) – 140°F (60°C)
Charge Voltage @ 68°F (20°C)	
Cycle	2.40 - 2.43 VPC
Float	2.25 - 2.30 VPC
Vent	Self-sealing (2 PSI operation)
Resistance	3.0 Milliohms (full charge)
Terminal	T876

Rated non-spillable by ICAO, IATA and DOT
Approved by CEC

Made in the U.S.A by East Penn Manufacturing

Distributed by:

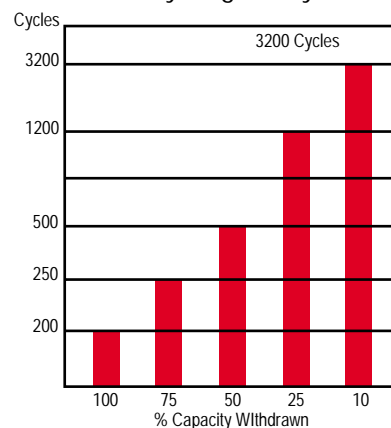
Valve-Regulated, Absorbed Glass Mat Technology



DIMENSIONS

Length (mm)	12.94 (329 mm)
Width (mm)	6.75 (171 mm)
Height (mm)	9.88 (251 mm)

Cycling Ability



Number of cycles vs. depth of discharge at +20°C discharge with 20 hour rate

MK Battery

1645 South Sinclair Street • Anaheim, California 92806

Toll Free: 800-372-9253 • Fax: 714-937-0818 • E-Mail: sales@mkbattery.com





1703 W. Koenig Lane

Austin, TX 78756

Phone:(512) 459-9494 Fax:(512) 451-5934 Email:Info@txspc.com

WARRANTIES

Solar Panels
25 Year Prorated Warranty

Charge Controller
2 Year Limited Warranty

Inverter
10 Year Limited Warranty

Batteries
As per Manufacturer

Installation
5 Year Unlimited Labor and Material

Texas Solar Power Company will extend all manufacturer warranties for a period of ten years from the date of system installation.

(Excluding Batteries and Charge controllers)

If for any reason any equipment fails during this five year period Texas Solar Power Company will replace or repair at no cost to the customer. This warranty is transferable in the event of sale of home or office.

EMERGENCY PHONE NUMBERS

Office Address: 1703 West Koenig Lane
Austin, Texas 78756

Office Hours
Monday through Friday 9:00 a.m. to 6:00 p.m.

Office Phone: 512-459-9494
Fax: 512-451-5934
Toll Free: 866-459-9494

Craig Overmiller
Cell Phone: 512-632-3237
Email: craig@txspc.com

Joe Garcia
Cell Phone: 512-789-3477
Email: joe@txspc.com

Texas Solar Power Company
1703 West Koenig Lane
Austin, Texas 78756

References:

Hybrid Stand Alone Systems
Del Theissen and Denise Stokes

Bastrop, Texas
Phone: 581-0151

Stand Alone

4,200 Watts Solar Modules
4 Air 403 Wind Generators
2 Trace 4048 Inverters
32 Trojan L16 Batteries
1 17 KW Generac Propane Generator

Grid Tie

George Ebby

Austin, Texas
Phone: 263-0805

16,000 Watts Solar
2 Trace 5548 Inverters
4 Trace 4048 Inverters
64 Optima Blue Top Batteries

City of Austin Rebate Customers

Bruce Smith

6705 #A O'Henry Cove (system visible from Fort Davis Cove)
3060 Watts, KC 170
Xantrex GT 3.0
(512) 795-0797

Bill Reaves

313 West Milton Street
3160 Watts, KC 170
Xantrex GT 3.0
(512) 448-3572

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Memberships:

American Institute of Architects
Texas Solar Energy Society
Texas Renewable Energy Industries Association
American Solar Energy Society
Solar Electric Power Association

Residential Solar Tax Credit – Overview*

Texas Solar Power Company recommends that you consult with your tax professional before investing in solar energy to determine how incentives relate to you.

<i>Incentive Type:</i>	Personal Tax Credit
<i>Eligible Technologies include:</i>	Solar Water Heat, Solar Photovoltaics (i.e. electricity production)
<i>Applicable Sectors:</i>	Residential
<i>Amount:</i>	30%
<i>Maximum Incentive:</i>	No maximum for solar-electric systems or solar water-heating systems
<i>Carryover Provisions:</i>	Excess credit may be carried forward to succeeding tax year.
<i>Eligible System Size:</i>	Not specified
<i>Equipment/Installation Requirements:</i>	Solar water heating property must be certified by SRCC or by comparable entity endorsed by the state in which the system is installed. At least half the energy used to heat the dwelling's water must be from solar in order for the solar water-heating property expenditures to be eligible.
<i>Authority 1:</i>	26 USC § 25D
<i>Date Enacted:</i>	8/8/2005
<i>Effective Date:</i>	1/1/2006
<i>Expiration Date:</i>	12/31/2008

NOTE: Key points of the Energy Policy Act (passed October, 2008) and stimulus package (passed February, 2009):

- Eight-year extension of the credit to December 31, 2016
- Credit can be used against the alternative minimum tax
- If the federal tax credit exceeds tax liability, the excess amount may be carried forward to the succeeding taxable year.
- **30% of qualified expenditures for a system. There is no cap.**
 - System must serve a dwelling unit, located in the US, used as a residence.
 - Expenditures include labor costs for onsite preparation, assembly, or original system installation and for piping or wiring to interconnect a system to the home.
 - The stimulus package appears to allow the tax credit to be taken before any rebates are factored in. This dramatically affects the bottom line in areas where rebates are affected.
 - If the taxpayer cannot use the tax credit, it appears that it can be taken as a cash rebate.

The maximum allowable credit, equipment requirements, and other details vary by technology as outlined below.

Solar electric property

- Maximum credit of \$2,000 for systems placed in service from January 1, 2006 through December 31, 2008.
- No maximum credit limit for systems placed in service from January 1, 2009 through December 31, 2016.
- The home served by the system does not have to be the taxpayer's principal residence.

Solar water heating property

- Maximum credit of \$2,000 for systems placed in service from January 1, 2006 through December 31, 2008.
- No maximum credit limit for systems placed in service from January 1, 2009 through December 31, 2016.
- Systems must be placed in service from January 1, 2006 through December 31, 2016.
- Equipment must be certified for performance by the Solar Rating Certification Corporation (SRCC) or a comparable entity endorsed by the government of the state in which the property is installed.
- At least half the energy used to heat the dwelling's water must be from solar in order for the solar water-heating property expenditures to be eligible.
- The tax credit does not apply to solar water heating property for swimming pools or hot tubs.
- The home served by the system does not have to be the taxpayer's principal residence.

Background

The [Energy Policy Act of 2005](#) (Section 1335) established a 30% tax credit up to \$2,000 for the purchase and installation of residential solar electric and solar water heating property and a 30% tax credit up to \$500 per 0.5 kilowatt for fuels cells. Initially scheduled to expire at the end of 2007, the tax credits were extended through December 31, 2008 by Section 206 of the [Tax Relief and Health Care Act of 2006](#).

In October 2008, through the [Energy Improvement and Extension Act of 2008](#) (Division B, Section 106), the tax credits were extended once again – until December 31, 2016 – and a new tax credit for small wind energy systems and geothermal heat pump systems was created. In February of 2009 the maximum tax credit was lifted for solar hot water and the structure of the tax credit was revised.

For more information about the renewable energy component of this tax credit (including the types and use of eligible property, the credit's interaction with other incentives, and project ownership requirements), see the EnergyStar's website:

http://www.energystar.gov/index.cfm?c=products.pr_tax_credits

Or check the Database of State Incentives for Renewable Energy (DSIRE) website:

http://www.dsireusa.org/library/includes/incentive2.cfm?Incentive_Code=US37F&State=federal¤tpageid=1&ee=1&re=1

* This is an edited version by Texas Solar Power Company. Please check the link above and with your personal tax accountant to see how these credits might affect you.