# Pre-Packaged Systems

*Kyocera Solar, Inc. specializes in pre-packaged, integrated solar electric systems for all power applications. The applications include residential power for stand-alone and utility interactive buildings, RV/Marine, water pumping and industrial remote power systems (telecommunication, oil & gas, traffic signals, and medical). The most popular system configurations for residential applications are represented in this catalog; however, systems requiring larger power requirements and other system components can be provided. Call your Kyocera Authorized Dealer for more information and design assistance.*

## MyGen™ Grid-Tie PV Power Systems

The MyGen™ Grid-Tie Photovoltaic (PV) Power System consists of photovoltaic modules, a direct current to alternating current (DC-to-AC) power conversion device, DC wiring, DC and AC overcurrent protection, lightning protection, component mounting and mechanical support.

The MyGen System is designed for use on residential and small commercial buildings of typical construction. Photovoltaic mounting is rafter-secured for structural compliance with most local building codes. MyGen complies with the 2002 National Electrical Code (NEC-2002), IEEE Std 929-2000-Institute of Electrical and Electronics Engineers Recommended Practices for Utility Interface of Photovoltaic (PV) Systems, UL 1741-Underwriters Laboratories Standard for Safety-Static Inverters and Charge Controllers for Use in Photovoltaic Power Systems and the ICBO 2000-International Building Code.

The modular, packaged systems listed below can be combined to form larger systems, depending upon user need, availability of unshadowed roof space and existing or planned electrical utility configuration.

### Features

- DC Input Voltage: 250-600 VDC
- AC Output Voltage: 240 or 208 VAC*
- AC Ouput Frequency: 60Hz
- Operational Temperature: -25°C to 60°C
- Roof Angles: Flat to 45°
- PV to Roof Clearance: 3" to 3/4"
- Wind Loading: Up to 125mph
- Outdoor Rating: All components
- Utility Protection: Visible blade disconnect, inverter anti-islanding protection
- Inverter User Interface: Status display of AC RMS volts, AC Amps, Watt-hours produced daily
- Inverter Dimensions: 11.61" H x 17.83" W x 8.42" D
- Inverter Weight: 70.0 lbs
- System Warranty: 5 year full system

* Refer to www.sma-america.com/stringsizing.html for required module count.

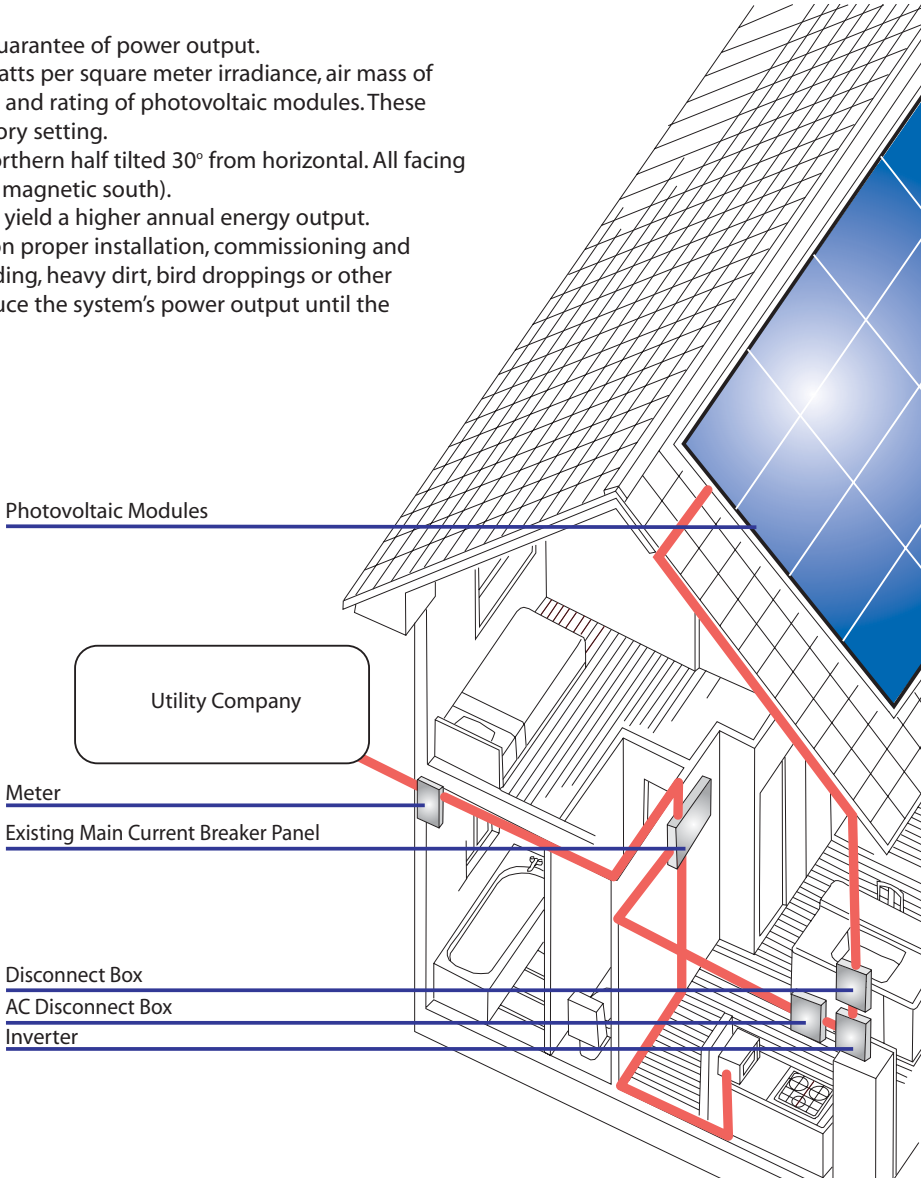
| | MyGen 1500 KC125G SMA 1800U | MyGen 2000 KC125G SMA 1800U | MyGen 2500 KC167G SMA 2500U | MyGen 2500 KC125G SMA 2500U | MyGen 3000 KC167G SMA 2500U | MyGen 3000 KC125G SMA 2500U |
|---|---|---|---|---|---|---|
| **Part Number** | **98450** | **98451** | **98454** | **98452** | **98455** | **98453** |
| **Price** | **$14,000.00** | **$17,000.00** | **$21,200.00** | **$21,200.00** | **$24,000.00** | **$24,000.00** |
| *STC-Lab Rated Power (1) (DC Watts)* | 1500 | 2000 | 2500 | 2500 | 3000 | 3000 |
| *AC Power(2) (AC Watts)* | 1250 | 1660 | 2110 | 2100 | 2530 | 2520 |
| *PV Panel Area (ft²)* | 120 | 160 | 200 | 200 | 250 | 250 |
| *PV Panel+Mount Weight (lbs.)* | 420.0 | 560.0 | 700.0 | 700.0 | 875.0 | 875.0 |

(1) Standard Test Conditions (STC) of 1000 Watts per square meter irradiance, air mass of 1.5, 25°C cell temperature used in lab testing and rating of photovoltaic modules. These conditions are only experienced in a laboratory setting.
(2) The actual energy output in kilowatt-hours your system will produce each month is a function of many site specific and instantaneous variable s including the operating temperature of the PV modules, the amount of solar radiation reaching the modules, the roof angle, the array orientation relative to south ("azimuth"), shading effects, soiling and installation quality.

## Estimated Yearly Kilowatt-Hours (kWh) Produced by MyGen Grid-Tie System

| City | MyGen 3000 | MyGen 2500 | MyGen 2000 | MyGen 1500 |
|---|---|---|---|---|
| Atlanta | 2720-4460 | 2265-3685 | 1795-2925 | 1320-2155 |
| Chicago | 2460-4026 | 2040-3335 | 1630-2640 | 1200-1950 |
| Denver | 2965-4860 | 2465-4020 | 1950-3200 | 1440-2360 |
| Houston | 2520-4125 | 2095-3420 | 1650-2710 | 1230-1990 |
| Fresno | 3035-4945 | 2510-4100 | 1995-3250 | 1485-2410 |
| Las Vegas | 3370-5510 | 2790-4570 | 2215-3630 | 1650-2695 |
| Los Angeles | 2995-4900 | 2480-4060 | 1965-3230 | 1455-2380 |
| Minneapolis | 2620-4275 | 2165-3530 | 1710-2805 | 1270-2070 |
| Miami | 2745-4485 | 2280-3720 | 1800-2940 | 1330-2170 |
| New York City | 2500-4095 | 2070-3385 | 1650-2685 | 1215-1975 |
| Phoenix | 3325-5430 | 2755-4510 | 2185-3575 | 1625-2655 |
| San Diego | 3045-4995 | 2520-4130 | 2005-3280 | 1475-2430 |
| San Francisco | 2935-4795 | 2460-3975 | 1930-3155 | 1420-2330 |
| Seattle | 2115-3465 | 1755-2865 | 1395-2265 | 1025-1660 |

**Notes:**
(1) Table provided for reference only, not a guarantee of power output.
(2) Standard Test Conditions (STC) of 1000 Watts per square meter irradiance, air mass of 1.5, 25°C cell temperature used in lab testing and rating of photovoltaic modules. These conditions are only experienced in a laboratory setting.
(3) Arrays in southern half of US tilted 20°, northern half tilted 30° from horizontal. All facing within 15 degrees of true south (may not be magnetic south).
(4) Mounting the modules at latitude tilt will yield a higher annual energy output.
(5) Estimated MyGen output dependent upon proper installation, commissioning and operation. Overcast weather conditions, shading, heavy dirt, bird droppings or other obstructions on a solar module face will reduce the system's power output until the obstruction is cleared.




Kyocera Solar, Inc. is a proud member of the U.S. Green Building Council to promote environmentally responsible and resource-efficient building structures.

# Kyocera Integrated PV Power Systems

Kyocera Solar, Inc. serves the widely varying needs of customers for distributed solar power through two major market channels. Industrial customers, such as original equipment manufacturers, government organizations, utilities, corporate clients, and institutions, are serviced directly with fully integrated systems packages. Kyocera Solar, Inc. also services a global network of more than 1,500 authorized distributors and dealers with components, packaged systems, engineering, technical support, project management, sales aids, and training.

At Kyocera Solar, Inc. Corporate Headquarters, teams of solar engineers and technicians assemble and integrate thousands of complete solar electric systems for immediate on-site deployment by the customer. These systems range from specialty industrial modules to container mounted communication systems for shipment overseas. Modules are integrated by Kyocera for use in these systems.

From large multi-kilowatt power plants to small trickle chargers, Kyocera solar products are backed by experience and technology you can rely on for all of your photovoltaic applications.

## Kyocera Solar System Applications

### *Telecommunications*

Kyocera has worldwide experience in providing reliable and economical solar electric systems for remote power solutions. Typical applications powered by solar electricity include microwave repeaters, base stations, VSATs, and WLL telecommunication systems.


### *Traffic Signaling*

Solar powered traffic systems are located primarily in urban settings. Because the cost associated with installing a transformer and underground cable is substantial, solar electric power offers a reliable, cost-effective solution.

### *RV & Marine*

Solar electric power systems are important for people on the go. Whether the system is installed on a camper, 5th wheel, self-contained RV, motor coach or marine pleasure craft, solar energy can provide the necessary electricity. These systems easily integrate into on-board battery systems and complement existing means of power production.

### *Oil & Gas*

Wireless solar electric power is a logical solution for the remote energy needs of the oil & gas industry . Thousands of integrated systems now operate worldwide, delivering reliable, cost-effective electricity for pipeline monitoring, telemetry, offshore drilling rigs, and cathodic protection.

### *Railroad Signaling*

Remote signaling for railroad applications is a Kyocera specialty. Systems ranging from small two-volt track circuits to larger intermediate signaling systems are custom-engineered to meet the demanding requirements of the railroad industry.

### *Water Pumping*

Kyocera manufactures solar-electric water pumps and offers complete packaged systems. These systems replace generator or hand-powered pumps, and are able to affordably deliver a usable quantity of water with no fuel cost and little maintenance. KSI water delivery systems are used for both community and livestock applications

### *Commercial Grid-Tie Systems*

Solar "grid-tie" systems on commercial buildings can be a cost-effective alternative to the replacement of old, underground electricity distribution feeder systems. PV systems can be incorporated into rural or urban settings with equal ease.

### *Lighting*

Kyocera's solar lighting systems are used in a variety of applications, including street/parking lots, billboard/highway signage, and bus/transit shelters.

### *Remote Homes*

Solar electric systems are ideal for those who choose to live beyond the reach of conventional electric power. Kyocera has provided thousands of residential solar electric systems across the globe. These systems can be delivered fully integrated for ground mounting or installed on a rooftop or stand-alone structure.

### *Rural Development Vaccine Refrigeration*

Kyocera has supplied thousands of systems worldwide to serve remote locations and improve the quality of life. Individuals and professional organizations are increasingly turning to solar electricity for lighting homes, pumping clean drinking water, refrigerating vaccines, and powering schools.