

# SolarGen

**Complete Stand-alone  
Solar Power Solutions**



**Solar power is among the most reliable power sources available today!** Run critical loads in remote locations with confidence. **SolarGen** power systems generate electricity safely and reliably to power your equipment anywhere there is adequate sunshine. Designed for deployment in either normal or hazardous locations, **SolarGen** packages are CSA C-US Class I Div II approved.



Injection skid configured for hot climate



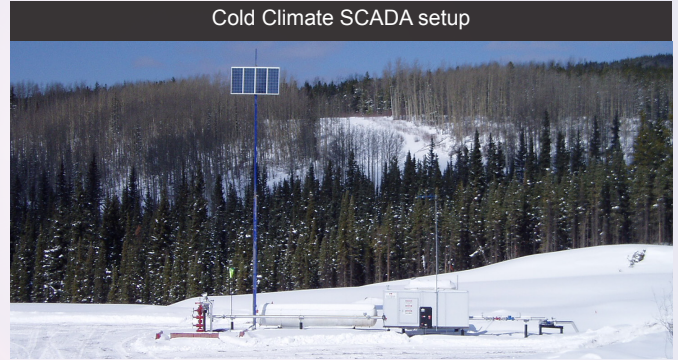
## Proven Performance

SPEC has more than 20 years of technical expertise in stand-alone solar power system design. Thousands of **SolarGen** power systems have been deployed in locations around the globe and have been proven to function flawlessly in climatic conditions of all types and extremes. **SolarGen** power systems are designed to ensure reliable trouble-free operation in harsh environments, and have been rigorously tested in ambient temperatures from -40° to 60° C. Each system component is completely factory tested prior to shipping, so that when your system is installed, it's ready to work.

## Ease of Installation/Pre-wired

Every **SolarGen** power system comes completely assembled and pre-wired utilizing high quality, industry standard components and construction techniques. Packages are supplied complete with all the necessary installation hardware, precise installation instructions, and clearly labeled field connection terminations to simplify installation. Set up is quick and easy enabling you to start producing power immediately.

Cold Climate SCADA setup



## Preferred and specified

Engineers, contractors and customers choose **SolarGen** power systems because they typically reduce installation, operational and life cycle costs. This is achieved by combining all the required equipment and features in a safe, pre configured unit that is completely self contained and ready to install out of the box.

Injection skid configured for cold climate



## Superior value

**Solar Production Equipment Corp** is committed to complete customer satisfaction and to providing superior value to our customers. When properly configured and applied **SolarGen** power systems outperform alternative technologies and are proven to effectively reduce both the installed and life cycle costs for remote stand-alone applications.

Power your stand-alone DC power requirement with a **SolarGen** power system and you can be confident of a trouble free, safe and reliable power solution. The **Solar Production Equipment Corp** sales team has extensive experience in properly sizing these systems and will be pleased to help you select the right system for your specific application.

## Applications

Security	Oil & Gas Hazardous Area Applications	Emergency Back-Up Systems
<p>SolarGen systems are ideal for wireless security applications. Reliable and secure power can be used for all types of multi-voltage security equipment such as cameras or DVRs, drastically reducing costs compared to utility-line extensions.</p>	<ul style="list-style-type: none"> <li>• Pipeline monitoring, data and communications</li> <li>• Satellite communications</li> <li>• Tank gauge</li> <li>• Security systems</li> <li>• SCADA/ RTU's</li> <li>• Wireless data</li> <li>• Injection pumps</li> <li>• Flare stack ignition systems</li> <li>• Gas detection</li> </ul>	<p>SolarGen can provide backup power for a range of applications, including industrial installations and communication centers. SPEC can assist you with analyzing electrical load requirements and design custom systems that protect against power outages, or grid supply inconsistencies.</p>

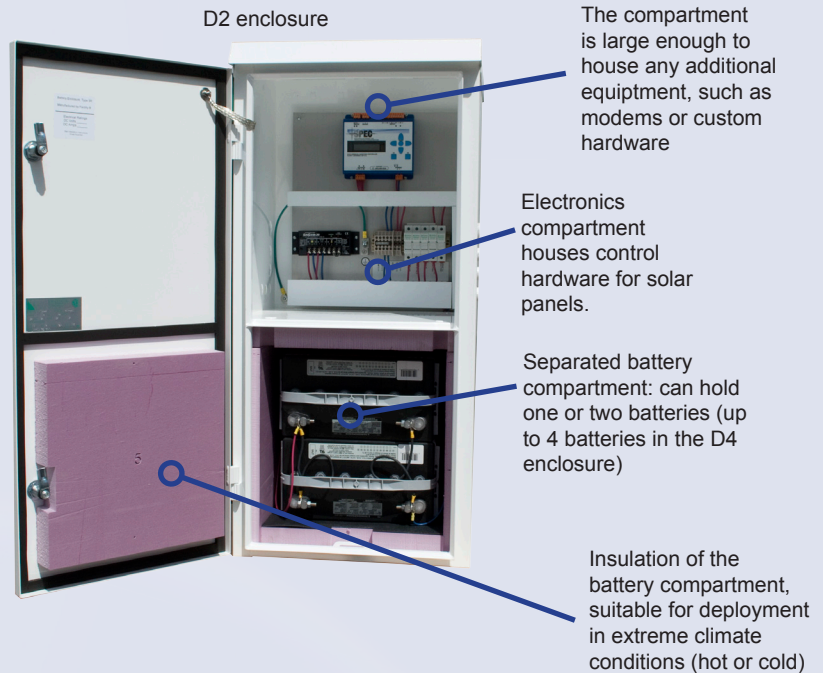
## SolarGen Power Systems are:

- Available in 12 or 24 V DC.
- Built utilizing Nema 3R or Nema 4 compartmentalized enclosures specifically designed and configured for our systems.
- Pre-wired for easy installation.
- Packaged and constructed with all of the components required for power generation and control.
- Configured with large back pans in the control compartment to allow flexibility and inclusion of third party consumer equipment.
- Available with CSA C-UL Class I, Div II certification for hazardous locations

## SolarGen Power Systems are available in: single enclosure / dual compartment or dual enclosure configurations.

### A) Single Enclosure / Dual Compartment

- Available in 2 compartment (D2) or 3 compartment (D4) enclosures.
- Ideal for small to medium sized loads requiring up to 300 amp-hours (D2) or 600 amp-hours of battery autonomy.
- Available with wall, pole, ground or security mounting options



### B) Dual enclosure systems include:

- 1) Separate prewired control enclosure
- 2) Separate enclosure for battery bank

#### Chest style:

- Designed to fit 2, 4, or 6 Group 27-100AH or Group 31- 150 AH batteries.
- Nema 3 R rated and suitable for use in Class 1 div 2 areas.

#### Through wall flanged battery enclosure:

- Wall inserted, sealed fully seam welded enclosure allows batteries to be placed inside the heated building envelope while retaining Class 1 div 1 / div 2 vapor barrier separation.
- designed to fit 4 or 8 Group 27-100AH or Group 31- 150 AH batteries. Nema 3 R rated and suitable for use in Class 1 div 2 areas.





**Enclosure Dimensions:**

Enclosure	Height (inches)	Width (inches)	Depth (side) (inches)	Weight (bare)	Certifications
D2 (2 batteries)	34.1	20.7	15.3	26 lb	NEMA 3R, UL/cUL
D4 (4 batteries)	52.0	20.7	15.3	38 lb	NEMA 3R, UL/cUL
CBOX	20	20	6	12 lb	NEMA 3R, UL/cUL
BBOX 4 Flanged	17.38	30.75	13.625	41 lb	NEMA 3R, UL/cUL
BBOX 8 Flanged	32.25	30.75	13.625	68 lb	NEMA 3R, UL/cUL

**Battery Dimensions:**

Battery	Height	Width	Depth (side)	Weight (bare)
8A27	9.25"	12.75"	6.75"	63 lb
8A31DT	11.3"	13.5"	6.8"	93 lb

**SPEC**

Solar Production Equipment Corp

10-12180 - 44st. S.E.,  
Calgary, Alberta, T2Z 4A2

(403) 730-5951

[www.solarproductionequipment.com](http://www.solarproductionequipment.com)

**Solar Production Equipment Corp** specializes in remote field applications for the oil and gas industry. SPEC has 20 years of experience in design and deployment of solar powered systems in hazardous locations.

SPEC is also a provider of innovative chemical injection pumps and pump controllers, as well as complete stand alone solar-powered solutions.