



January 2016



Our Mission

Glenergy's mission is to provide solar lights and power to people throughout the world, especially those who do not have access to grid electricity or who have only limited access to unreliable grids. We believe that small amounts of solar electric power (distributed with applications such as long-lived, energy-efficient LED lights) can both improve quality of life and reduce greenhouse gas emissions.

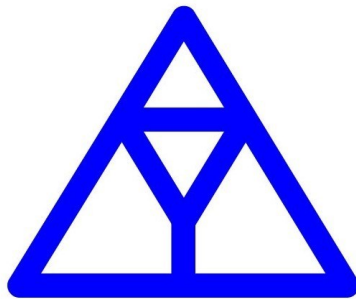


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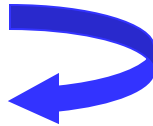
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Solar System Design

Where To Begin:

The alternative energy system design process begins with a careful evaluation of energy needs. It is important to be thorough and realistic when estimating your energy consumption because the size and cost of your future system are directly dependent on the amount of energy that the system will need to provide.

Start by Asking:



- ◆ *What will the system be powering?*
- ◆ *How will daily, weekly, and annual usage vary?*
- ◆ *Where exactly will the system be used?*

Location and time of year that the system will be used are both very important. Hours of effective, full sun can vary tremendously over the course of the year and from place to place. Wind resources are even more variable. For residential off-grid applications, hybrid systems including both wind and solar power are often used, along with a reliable back-up generator. The performance of any system will depend upon location, shading, and time of year. For Eastern Ontario customers, the *Portable Solar Systems* table on Page 6 shows the number of watt hours per week that can be provided in the summer.

To help you begin exploring the system design process, Glenergy has developed a *System Design Estimation Tool* (available at www.glenergy.ca) and an *System Estimate Form* (available at 2669 Petawawa Blvd). These tools will help you to: estimate your energy needs, determine the size of your ideal system, and find the rough cost for that system*.

The Basic System Components are important in order to ensure that your energy needs are met. It is important to recognize that the components of a system have to work together. The typical components in an alternative energy system include:

- 1. Loads**
- 2. Power Sources (Solar Panels)**
- 3. Energy Storage (Batteries)**
- 4. Power Conversion & Distribution Systems (Inverters)**
- 5. Charge Controllers**
- 6. System Accessories**

If you have any further questions regarding system design, please feel free to contact us. Glenergy provides free system consultation services.

**Schedule your appointment by calling us toll free at
+1 877 367 6729 today!**

1: Loads

At the beginning of the design process, it is necessary to examine the various items that will require energy from the future system and to determine their total consumption. Loads may include anything from lights and stereos to water pumps and microwave ovens. When exploring each of your loads, consider the following:

- ◆ *Does the item require AC or DC power?*
- ◆ *What is the total consumption of the item?*

Once the power consumption of each load has been determined, estimate the number of hours per week that each load will need to run. Then, multiply the watts consumed by the hours run per week. This calculation will provide you with watt hours per week for that load. Find the total weekly energy required from the system by determining the sum of all of the weekly consumptions for the individual loads. Glenergy's *System Estimate Form* will guide you through this process.

2. Power Sources

After you have analyzed your loads and usage patterns, knowledge of the amount and intensity of wind and sunshine at your location will allow you to determine your ideal power source. At Glenergy, we generally design so that the daily production calculated is about 1.5 times the estimated daily consumption. This estimate covers the various inefficiencies in the system. In residential systems, we recommend the inclusion of a fuel-fired generator to provide power when the batteries are depleted from an extended period without availability of sun or wind.

3: Energy Storage

Most alternative energy systems require batteries to store energy. For the most part, lead acid deep cycle batteries provide the best price and performance. These batteries come in a number of varieties including: flooded, sealed, gel or Absorbed Glass Mat (AGM).

Size really does matter! Batteries are the heart of the system, so it's important to make sure that they are big enough. A reasonable "rule of thumb" is to provide rated capacity equal to a week's consumption. For example, if your total weekly consumption is 1200 Wh/week, then a battery of at least 100 Ah at 12 V ($W = A \times V$ / $Wh = Ah \times V$) would be required. A battery bank of this size should provide approximately 3 to 4 days of reserve capacity. In order to keep batteries in top condition, we design systems such that the batteries will not need to be brought below 50% of their capacity.

4. Power Conversion & Distribution

In the alternative energy world, it is often necessary to convert direct current (DC) from batteries into alternating current (AC) to run appliances. The tool used to achieve this conversion is called an inverter.

While some appliances require the very high quality AC power provided by sine wave inverters, many devices can function very well with less expensive square wave or modified sine-wave inverters. Less expensive inverters tend to also be less efficient and generally do not offer additional features such as automatic generator starting, load transfer or battery charging.

In some cases, it is possible to meet energy needs without an inverter by running smaller loads on DC. A 12V DC system, particularly for lighting, can help you to avoid the relative inefficiency or expense of an inverter.

5: Charge Controllers

Charge controllers are used to manage the charging of batteries and, sometimes, the discharge of batteries by the loads. Charge controllers vary widely in effectiveness, options and price. Many models include metering systems to display such things as current from the solar panels, current to the loads, battery voltage, etc. There are versions that include technologies such as Pulse-Width Modulation (PWM) or Maximum Power Point Tracking (MPPT) (see Page 15) that optimize the charging of batteries from solar panels. Some models can manage both wind and solar charging. At Glenergy, we carry a number of different charge controllers to suit the diverse needs of our customers.

6: System Accessories

In order to help you make the most of your system and it's features, the system accessories offered at Glenergy are designed to aid in measuring and monitoring the performance of your system and aid in maintenance as well.

**GLENERGY
IN THE DEVELOPING WORLD
Enabling The Transition from Kerosene to Solar**

DID YOU KNOW?

One in four people, globally, lack access to electricity.

This number is increasing.

This population mostly relies on fuel-based lighting (think kerosene), which is expensive, polluting, hazardous and inefficient.

Along with promoting alternative energy in North America, Glenergy is committed to the transition from kerosene to clean, safe and affordable solar lighting for those who need it most.

Glenergy has delivered solar lighting to over 50 countries. From offices in Kenya, Tanzania and Uganda, and is also distributing our solar-powered LED lanterns, launching village-level entrepreneurs with solar charging micro-businesses, and working with NGOs and philanthropic entrepreneurs on community development projects across East Africa.



We are actively seeking social investments to magnify impact. Capitalization of our microcredit fund gives village-level entrepreneurs access to start-up capital for their micro-solar business. As they repay their loan, the money is used again to fund another entrepreneur. In this way, donations to Glenergy are leveraged many times over.

Modern lighting changes lives. A social investment through Glenergy has a positive impact on the financial and physical well-being of people in developing countries around the world.

Visit www.glenergy.ca to learn how you can help.

Loads

LED Lighting

LED bulbs are perfect for situations where directed, low power consumption lighting is required. In places where bulb-changing can be difficult, LEDs provide an excellent long-term solution.

Part#: LB18
Voltage:12 V DC
Colour: White
Type: 18 LED
Base: E27
Power: 1 W
Price: \$8.00



Part#: LBR18
Voltage:12 V DC
Colour: Red
Type: 18 LED
Base: E27
Power: 1 W
Price: \$8.00



Part#: LB18-P
Voltage:12 V DC
Colour: Cool or Warm White
Type: 18 LEDs
Base: 2 Pin
Power: 1 W
Price: \$8.00



Part#: LB6-P
Voltage: 12 V DC
Colour: Cool or Warm White
Type: 6 LEDs
Base: 2 Pin
Power: 0.3 W
Price: \$8.00



Part#: LB18-G
Voltage: 12 V DC
Colour: Cool or Warm White
Base: GU10
Power: 1 W
Price: \$8.00



Part #: G40-12D
Voltage: 12 V DC
Colour: Cool or Warm White
Type: 12 LEDs
Base: E27
Power: 0.6 W
Price: \$4.00



Part #: G40-24D
Voltage: 12 V DC
Colour: Cool or Warm White
Type: 24 LEDs
Base: E27
Power: 1.2 W
Price: \$6.00



Part#: LED-3WW/CW
Voltage: 12 V DC
Colour: Cool or Warm White
Base: E27
Power: 3 W
Price: \$15.00



LED Lighting (12 V DC)

Part#: LED_5CW
Voltage: 12 V DC
Colour: Cool White/Warm White
Base: E27
Power: 5 W
\$20.00



Part#: LED_7CW/WW
Voltage: 12 V DC
Colour: Cool or Warm White
Base: E27
Power: 7 W
\$25.00



Part#: LED - 1156F
Voltage: 12V DC
Colour: Cool or Warm White
Type: 20 LEDs
Automotive bulb
Base: Bayonet
Power: 1 W
Price: \$10.00



Part#:C30-30D-E14
Voltage: 12V
Colour: Cool or Warm White
Type: 30 LEDs
Base: E14
Power: 1.5 W
Price: \$9.00



Part #: LED_C3_E12
Voltage: 12V
Colour: Cool White
Type: 3 LEDs
Base: E12
Power: 3 W
Price: \$11.00



LED Lighting (12 V DC)

Part #: SHL-66DF6
Voltage: 12V
Colour: Warm White
Type: 66 LEDs
Base: E27
Power: 3.3 W
Price: \$15.00



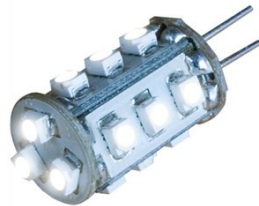
Part#:
Voltage: 12V & 24V
Colour: Cool White
Type: 12 LED
Base: 42mm festoon
Power: 2 W
Price: \$19.25



Part #:
Voltage: 10V - 30V
Colour: Cool White
Type: 9 LED
Base: 42mm festoon
Power: Equivalent to 15 watt incandescent light bulb
Price: \$19.25



Part #:
Voltage: 8 - 30V
Colour: Warm White
Type: 15 LED
Base: G4
Power: 1.2 W
Price: \$18.50



LED Lighting (12 V DC)

LED Light Fixtures

Part #: FIX_RND_9W_CW

Colour: Cool white

Wattage: 9W

LEDs: 180

Dimensions: 6 x 2.5 in

Price: \$25.00



Part #: FIX_RND_2.4W_48D_CW

Colour: Cool white

Wattage: 2.4W

LEDs: 48

Dimensions: 5.5 x 2 in

Price: \$15.00



Part #: FIX_RND_4.0W_80D_CW/WW

Colour: Cool/ Warm white

Wattage: 4.0W

LEDs: 80

Dimensions: 5.5 x 2 in

Price: \$18.00



Part #: FIX_SQ_8W_CW/WW

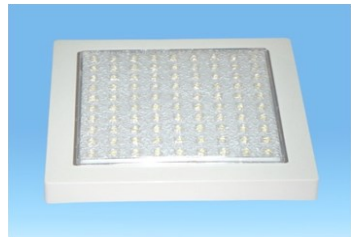
Colour: Cool/Warm white

Wattage: 8W

LEDs: 88

Dimensions: 8 x 8 x 1.5 in

Price: \$25.00



LED Lighting (12 V DC)

Part #: FIX_RND_3.5W_CW

Colour: Cool white

Wattage: 3.5W

LEDs: 39

Dimensions: 7 x 1.5 in

Price: \$25.00



Part #: FIX_CL_12_CW

Colour: Cool White

Wattage: 12W

LEDs: 24

Dimensions:

Price: \$25.00



Part #: FIX_GN_3X1W_CW

Colour: Cool white

Wattage: 3

LEDs: 3 x 1W LEDs

Dimensions: 1 x 3 x 15 in

Price: \$20.00



Flexible Adhesive Back LED Strip

The ultimate in lighting flexibility! These pliable, bendable LED strips come equipped with high-power LEDs to provide impressive light coverage in hard to reach places. An adhesive backing makes mounting a breeze. Any possible location such as curves, corners, round objects can now be lit effectively. They can be cut into strips as small as 10 cm (3 LEDs), are available with or without waterproof coating and come in a great variety of colours.

Part #	LEDs Per m	Colour	Colour Temp./ Wavelength	Lumens (lm/m)	Power (W/m)	Strip W (mm)	Price (\$)/m	Price (\$)/m W*
STR-12008-CW STR-12008-B	120 120	White Blue	6000-7000K 455-470nm	360-440 120-144	9.6 W 9.6W	8 8	24.00 24.00	n/a n/a
STR-6008-CW	60	White	6000-7000K	180-220	4.8 W	8	16.00	20.00
STR-6008-WW	60	Warm White	3000-3500K	180-200	4.8 W	8	16.00	20.00
STR-6008-R	60	Red	620-630nm	44-54	4.8 W	8	16.00	20.00
STR-6008-G	60	Green	510-520nm	76-96	4.8 W	8	16.00	20.00
STR-6008-B	60	Blue	455-470nm	30-36	4.8 W	8	16.00	20.00
STR-6008-Y	60	Yellow	585-595nm	44-54	4.8 W	8	16.00	20.00
STR-6008-V	60	Purple	400-435nm	30-50	4.8 w	8	16.00	20.00
STR-3010-CW	30	White	6000-7000K	300-320	7.2 W	10	20.00	24.00
STR-6010-CW	60	White	6000-7000K	620-640	14.4 W	10	30.00	34.00

**W: Waterproof

LED Lighting (12 V DC)

Power Supplies for Flexible LED Strip Lighting

AC drivers are of various capacities, and LED strips have varied power consumption per metre, depending upon the models selected. If you want to run LED strips from an AC driver, then the table below will help you determine the appropriate AC driver. The table shows the maximum length of LED strips of different types that can be run from various AC drivers

Jack Connection Power Supplies

		LED Power Per Meter				
Part #	AC Driver Capacity (A)	14.4 W/m	9.6 W/m	7.2 W/m	4.8 W/m	Price (\$)
PS-.800J	0.8	n/a	1m	1.3m	2m	15.00
PS-1.5-J	1.5	1.2m	1.8m	2.5m	3.7m	45.00
PS-2.5-J	2.5	2.m	3.1m	4.1m	6.2m	60.50

Inline Connection Power Supplies

		LED Power Per Meter				
Part #	AC Driver Capacity (A)	14.4 W/m	9.6 W/m	7.2 W/m	4.8 W/m	Price (\$)
PS-2.5-I	2.5	2.m	3.1m	4.1m	6.2m	60.50
PS-3.4-I	3.4	2.8m	4.2m	5.6m	8.5m	60.50
S-60-12	5.0	4.1m	6.2m	8.3m	12.5m	49.50
S-320-12	25.0	20m	31m	41m	62m	145.00

LED Lighting (12 V DC)

Mounting Options for Flexible LED Strip Lighting

Part #	Description	Compatible Strips	Price (\$) Per Metre
STR-MNTN-CL	13mm mounting rack with clear lens	8mm/10mm	10.00
STR-MNTN-FR	13mm mounting rack with frosted lens	8mm/10mm	10.00
STR-MNTW-CL	16mm mounting rack with clear lens	10mm only	10.00

Premounted LED Strip Lighting

Part #	Length (cm)	Colour	Lens	Price (\$)
STRM30C-3010-CW	30	Cool White	Clear	15.00
STRM30M-3010-CW	30	Cool White	Milky	15.00
STRM60C-3010-CW	60	Cool White	Clear	25.00
STRM60M-3010-CW	60	Cool White	Milky	25.00
STRM100C-3010-CW	100	Cool White	Clear	37.00
STRM100M-3010-CW	100	Cool White	Milky	37.00

LED Lighting (12 V DC)

LED Flood Lights

Our exterior 12 V DC LED Flood Lights are the perfect partner for solar or wind powered outdoor lighting systems. They are ideal for lighting signs, paths or for security lighting. In addition, the new FH line offers larger high flux LEDs in a smaller number while providing superior lighting in any application.



FL-10W



FLS-10-CW



FL-30



Solar Security Light

Part #	Colour	Power (W)	Lumens	Dimensions (cm)	Price (\$)
FL-10W	Cool White/ Warm White	10	~ 600	12.5 x 9.6 x 8.7	50.00
FLS-10-CW (Sensor)	Cool White	10	600	12.5 x 9.6 x 8.7	75.00
FL-30	Cool White	30	1800	22.5 X 18.5 X 13	88.00
Solar Security Light	Cool White/ Warm White	10	800	11.5 X 15.5 X 12	125.00

Power Sources

Glenergy Solar Panels

Part #	V (V)	Voc (V)	Isc (A)	Vmp (V)	Imp (A)	Pmax (W)	L (cm)	W (cm)	D (cm)	W (kg)	Price (\$)
SP- 1	12	21	65	18	60	1	13	14.5	1.8	3	7.50
SP- 1A	6	9.5	0.12	9	0.11	1	17.8	15.5	1.8	0.4	7.50
SP- 2A	6	9.8	0.23	9	0.22	2	18	14	1.8	0.4	10.00
SP- 3	12	21.7	0.19	17.7	0.17	3	16.1	13.6	1.8	0.4	15.00
SP- 4A	6	9.6	0.55	8	0.5	4	22	18.2	1.8	0.5	17.50
SP- 10	12	20.9	0.7	17	0.6	10	35.2	28.2	2.5	1.2	35.00
SP- 20	12	21.1	1.2	17	1.2	20	62.5	29.5	2.5	2.2	60.00
SP- 50	12	21.6	3.3	17	2.9	50	78.3	50.8	3.1	4.4	100.00
SP- 80	12	21.6	5.3	17	4.6	80	88.1	66.5	3.1	6.3	150.00
CS- 230	24	37	8.3	30	7.8	230	164	98.3	4	20.0	350.00
RS- 250	24	37.4	8.8	30.1	8.3	250	164	99.2	4	19.0	350.00
Foldable Solar Panels with Charge Controller											
MSK- 90	12	21.6	5.6	17.5	5.1	90	103.5	64.5	3	11.5	510.00
MSK-135	12 V	21.6	8.34	17.5	7.7	135	151.5	62	3	16.2	696.00

Energy Storage

Sealed Batteries

Part #	Ah		Wh		Price (\$)
	20hr	100hr	20hr	100hr	
PS-1290	9	10	108	120	35.00
PS-1212	12	13	144	156	50.00
PS-1218	18	20	216	240	90.00
PS-12350	35	39	420	468	130.00
PS-12550	55	62	660	744	195.00
PS-12750	75	85	900	1020	270.00
8A27	92	106	1104	1272	260.00
AGM-S6-370	335	370	2010	2220	550.00
AGM-S6-460	415	460	2490	2760	620.00
AGM-S12-116	105	116	1260	1392	350.00
AGM-S12-128	115	128	1380	1536	360.00
AGM-S12-230	210	230	2520	2760	650.00

Flooded Batteries

Part #	Voltage (V)	Ah		Wh		Price (\$)
		20hr	100hr	20hr	100hr	
US-2000	6	216	295	1296	1770	180.00
S480	6	365	480	2191	2360	430.00
S550	6	415	550	2500	3300	475.00
S600	6	450	600	2700	3600	517.00
4KS 21 PS	4	1104	1557	4200	6230	1300.00
4KS 25 PS	4	1350	1900	5400	7600	1500.00
4CS 17 PS	4	546	770	2180	3080	700.00

Power Conversion & Distribution Systems

Inverters

SSW Series

Part #	Voltage (V)	Watts (W)	Feature	Price (\$)
SSW-350-12A	12	350	USB Included	147.40
SSW-600-12A	12	600	USB Included	248.90
SSW-1000-12A	12	1000	Remote LCD Display	409.10
SSW-1500-12A	12	1500	Remote LCD Display	488.90
SSW-2000-12A	12	2000	Remote LCD Display	580.00

PST Series

Part #	Voltage (V)	Watts (W)	Price (\$)
PST-600-12	12	600	294.60

SA Series

Part #	Voltage (V)	Watts (W)	Price (\$)
SA-1000K-112	12	1000	547.10
SA-1500-112	12	1500	723.60
SA-2000K-112	12	2000	1111.40
SA-3000K-112	12	3000	1647.80
SA-600R-124	24	600	448.20
SA-1000K-124	24	1000	547.10
SA-1500-124	24	1500	723.60
SA-2000K-124	24	2000	1111.40
SA-3000K-124	24	3000	1647.80

Inverter/Chargers

Part #	Continuous Power Rating (W)	Overload Capacity (W)	DC Voltage (V)	Price (\$)
Sealed				
FX2012T	2000	4000	12	2500.00
FX2524T	2500	6000	24	2500.00
FX3048T	3000	6000	48	2500.00
Vented				
VFX2812	2800	4800	12	2522.00
VFX3524	3500	6000	24	2646.00
VFX3648	3600	6000	48	3283.00



Sealed



Vented

Charge Controllers

Solar Charge Controllers

Conventional



Samlex Flush Mount



Solarix PRS 2020



SunLight Series



Solsum Series



Tristar Series Series



Prostar Series



PR Series



Sunsaver Series

Charge Controllers

Part #	Voltage (V)	Amps	Price (\$)
PR Series	12/24	10	160.30
		20	223.10
		30	303.90
Solsum Series	12/24	6	41.10
		8	48.50
Solarix PRS	12/24	10	111.80
		30	166.20
Samlex Flush Mount	12/24	30	234.10
SunLight Series	12	10	120.00
		20	150.00
	24	10	130.00
		20	210.00
Prostar Series	12	15	145.00
		30	200.00
Prostar Series with Remote	12	15	195.00
		30	285.00
Sunsaver Series with LVD	12	6	70.00
		10	80.00
		20	100.00
	24	10	105.00
		20	140.00
SunSaver Duo	12	25	223.00
Tristar Series	12/24	45	180.00

Charge Controllers

Maximum Power Point Tracking

Morningstar

Part #: SunSaver MPPT
Voltage: 12/24 V
Output: 15 Amp
Price: \$315.00



Part #: Tristar MPPT
Voltage: 12, 24 or 48 V
Output: 45 Amp
Price: \$580.00 (45 Amp Output)
\$731.00 (60 Amp Output)



Part #: FM-80 MPPT
Voltage: 12/24/48 V
Output: 80 Amp
Price: \$859.85



Midnite

Part #: Midnite 30 MPPT
Voltage: 12-48 V
Output: 30 A
Price: \$439.00



Part #: Midnite-200
Voltage: 12-72 V
Output: 66 Amp
Price: \$884.00



Outback

Part #: FM-60 MPPT
Voltage: 12/24/48 V
Output: 60 Amp
Price: \$725.00



Steca

Part #: MPPT-2010
Voltage: 12/24 V
Output: 10 Amp
Price: \$445.80



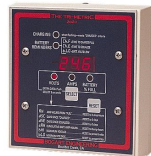
System Accessories

Part #: TM-2020

Function: Trimetric meter battery monitor

Voltage: 12/24 V DC

Price: \$200.00



Part #: Midnite Meter

Function: Battery Capacity Meter

Battery Voltage: 12-48 V DC

Price: \$87.00



Part #: MATE

Function: Management tool for Outback

Voltage: 12/24 V DC

Price: \$340.00



Part #: MATE 2

Function: Management tool for Outback

Voltage: 12/24 V DC

Price: \$340.00



Part #: MATE 3

Function: Management tool for Outback

Voltage: 12/24 V DC

Price: \$620.00



Part #: FlexNet DC

Function: DC system monitoring

Battery Voltage: 8-80 V DC

Price: \$400.00



Part #: TS-RM-2

**Optional Tristar Remote Meter
(for Tristar or Tristar MPPT)**

Price: \$138.00



Pre-Designed Kits

Small Cabin Lighting System

The Small Cabin Lighting System includes three LED bulbs on cords with switches. The system battery (22 Wh lithium) can run all three lights for 8 hours when fully charged. Charging under full sun takes 6-8 hours. The included mobile phone adapters allow charging for most phone types. 100 Wh per week in the summer!



\$100.00

Comes in three versions:

SHLS-43

SHLS 43: 3 lights, 4W panel, mobile charger function, \$90

SHLS 43A: 3 lights. 4W panel, mobile charger & USB function, \$100

Trony Sentry

TRONY SENTRY1012 is a portable solar lighting system. This system uses a new type of rechargeable Li-ion battery packs, which can be charged with a solar panel or AC adapter. It includes a DC 5V output for charging smart phones, and three DC 12V LED lights.



\$195.00

Samlex Foldable Panels & Charge Controller

MSK-90/MSK 135

These solar panels are portable, include a 10 Amp charge controller and a soft shell case. Convenient for travelling.

See also page 20 for more information.



SunDanzer

DCR50 - Refrigerator/Freezer

12V or 24V with low voltage disconnect

Gross Capacity: 1.8 cu. ft./50 liters

Product Dimensions (W x D x H): 67.3 x 58.4 x 77.5 cm

Average Energy Use: 114 Watt-hrs/day @ 32C

Environmentally friendly CFC-free refrigerant

Rugged scratch resistant galvanized steel exterior

Easy to clean aluminum interior

Automatic control with adjustable thermostat

Runs on a single 45W module in most climates

Freezer:

Average Energy Use: 280 Watt-hrs/day @32C

\$875



DCR165 - Refrigerator/Freezer

12V or 24V with low voltage disconnect

Gross Capacity: 5.8 cu. ft./163 liters

Product Dimensions (W x D x H): 93.5 x 66.5 x 87.6 cm

Average Energy Use: 168 Watt-hrs/day @ 32C

Environmentally friendly CFC-free refrigerant

Rugged scratch resistant galvanized steel exterior

Easy to clean aluminum interior

Interior light

Patented low-frost system

Automatic control with adjustable thermostat

Baskets for food organization

Runs on a single 75W module in most climates

Freezer:

Average Energy Use: 441 Watt-hrs/day @ 32C

\$1500



DCR225 - Refrigerator/Freezer

12V or 24V with low voltage disconnect

Gross Capacity: 8.1 cu. ft./229 liters

Product Dimensions (W x D x H): 119 x 66.5 x 87.6 cm

Average Energy Use: 198 Watt-hrs/day @ 32C

Environmentally friendly CFC-free refrigerant

Rugged scratch resistant galvanized steel exterior

Easy to clean aluminum interior

Interior light

Patented low-frost system

Automatic control with adjustable thermostat

Baskets for food organization

Runs on a single 75W module in most climates

Freezer:

Average Energy Use: 532 Watt-hrs/day @ 32C

\$1700



DCF390-Freezer

12 or 24 VDC with low voltage disconnect for battery protection

Gross Capacity: 14.7 cu ft/390 liters

Product Dimension: (w x D x H): 161 x 73 x 87 cm

Average Energy Use: 800 Watt-hrs/day at 32 °C

Environmentally friendly CFC-free refrigerant

Rugged scratch resistant galvanized steel exterior

Easy to clean aluminum interior

Low frost system

Automatic control with adjustable thermostat

\$1950



NEW

Solar Cell Phone Chargers

These chargers are revolutionary and are a summer must have! Simply leave it in the sun, and use it to charge your devices!
Compatible with all phones.



Solar Phone
Charger
5000mAh
\$20.00



Elite Phone
Charger
10000 mAh
\$45.00

Solar Fan Hat

Ideal for any outdoor summer activity. Panel on top operates fan aimed directly at your face to keep you cool. Option to insert batteries as well. Available in white, red (with Canadian flag) and straw.



SFH
\$10.00

12V Radio

FM/AM radio with USB. SD player. Includes recording function, disco light, rechargeable battery, AC power supply. Comes in red, black, blue & gold.



Radio-12V-
USB/
Flashlight
\$30.00



Small LED Light
w/ Magnet &
Hook- Royal
Blue
\$6.00

Hands-Free 24 LED Light

Glenergy's compact magnetic light is perfect for any small space that requires bright light.



Suction Solar
Light
\$28.00

Lightship Suction Solar Light

Ideal for boats, RV, Travel, Camp, emergency, power outages. Get up to 8 hours of light, water resistant and eliminate the inconvenience of batteries.

Glenergy Dealers

Ontario

Eco Alternative Energy
613-279-1076
sharbot-
lake@ecoaltenergy.com
Sharbot Lake

Northern Lights Solar Systems
705-246-2073
info@northernlightsenergy.com
Richard's Landing

EMSM Electric
519-669-4773
elam@pobox.com
Wallenstein

Fur Harvesters Auction
705-495-4688
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North Bay

Millenium Institution
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Grand Valley

Go Off Grid
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Hours

Monday-Friday 8:30 am to 4:30 pm
Saturday-Sunday Closed

