

MOBILE SOLAR AND INVERTER SOLUTIONS PRODUCT SELLING GUIDE

Go Power!®

1.866.247.6527 | gpelectric.com



SINCE 1996



Solar | Inverters | Chargers | Batteries

Since 1996, Go Power! has been a trusted leader in the solar technology and power inverter markets. This experience, paired with our commitment to providing excellent value, means we only produce high-quality components that give you more for your money. Durable, dependable, and cost effective is what we stand for.

Use Go Power! off-grid, full-time or to combat costly battery maintenance. Our solar and inverter systems and kits offer mobile power solutions for wherever grid power is inaccessible, unavailable, or unsustainable.

RV MANUFACTURERS WE WORK WITH































...and many more!

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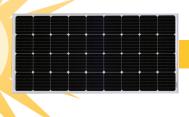
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HOW SOLAR WORKS

Go Power! solar kits charge the RV's battery bank to power lights, fans, and other DC appliances. Solar also extends battery life by ensuring a healthy charge level.

SOLAR PANELS*

Convert the sun's energy to electricity, which charges the battery bank. Solar panels mount to the RV rooftop or are available as a portable solar kit.



Components included in Go Power! Solar Kits



SOLAR CONTROLLER*

Regulates the amount of electricity sent from the solar panels to the batteries and protects batteries from overcharging damage.

BATTERIES

High efficiency batteries are the system's DC power reservoir and store the electricity generated from the solar panels.





POWER DRAW

DC appliances such as lights, fans, and water pumps draw power from the RV battery bank.

LEARN MORE ABOUT SOLAR AT GPELECTRIC.COM

SOLAR FAOS

HOW LONG CAN I RUN MY APPLIANCES OR ELECTRONICS ON SOLAR?

Appliances don't run directly on solar. However, the length of time all depends on how many amps your load consumes per hour and how large your battery bank is. Try using the Solar Sizing Calculator on the back of the catalogue, which will recommend battery bank size for the loads you use.

WHAT IS THE DIFFERENCE BETWEEN DC AND AC POWER?

DC (direct current) power is drawn from a battery and will run several types of 12-volt RV appliances, like lights and water pumps. AC (alternating current), which is drawn out of the wall at home, can be replicated in an RV by using an inverter to convert your 12-volt DC battery power into 120-volt AC household power. This is important if you wish to run AC-powered devices such as a TV, hair dryer, or coffee maker.

CAN I RUN MY TV, REFRIGERATOR, OR WATER PUMP WITH SOLAR?

Many refrigerators in RVs can run on DC, propane and AC power. The solar panels will provide power to the batteries, which will allow you to run the fridge on DC power and propane. Solar will also charge the batteries so you can use your water pump. Many TVs run on 120-volt power, so you might require a small inverter to run a TV.

DO I NEED TO INSTALL AN INVERTER IF I ONLY WANT TO CHARGE MY BOAT OR RV BATTERY WITH A SOLAR PANEL?

No, you only require an inverter if you need to convert DC battery power to AC household power to run devices like TVs, tool chargers, and microwaves.

STARTER SOLAR KITS

WHAT'S IN A SOLAR KIT?

Go Power! kits contain a solar panel, solar controller, mounting hardware and cables. They are ideal for charging your RV's battery.



OVERLANDER KIT

Our most popular kit, the Overlander features 190-watts of power to keep your batteries healthy and charged. Features a 25-year power-output warranty.

WATTS	AMPS			
190	9.3			
CONTROLLER				
30 amp PWM Bluetooth® solar controller				
PANEL WEIGHT & DIMENSIONS				
26.4 lb				
59.1 x 26.3 x 1.58 in				

RETREAT KIT

The Retreat is the perfect entry-level kit and is ideal for campers or rooftop where space is limited. Features a 25-year power output warranty.

WATTS	AMPS			
100	5.4			
CONTROLLER				
30 amp PWM Bluetooth® solar controller				
PANEL WEIGHT & DIMENSIONS				
17.6 lb				
47.09 x 2	1.46 x 1.38 in			

EXPANSION KITS

Add more power to the OVERLANDER and RETREAT kits. Expansion kits include solar panel, mounting hardware, and MC4 branch connectors.

EXPANSION KITS	AMPS	WATTS	PANEL WEIGHT	PANEL DIMS
OVERLANDER-E	9.3	190	26.4 lb	59.1 x 26.3 x 1.58 in
RETREAT-E	5.4	100	17.6 lb	47.09 x 21.46 x 1.38 in

ECO SERIES KITS

Compact, roof-mounted kits. Ideal for trickle-charging in the off-season or for charging a smaller battery bank. 80W and 20W kits include digital controller, 25' of cable, and all mounting hardware.





ECO SERIES	AMPS	WATTS	CONTROLLER	WEIGHT	DIMS
GP-ECO-80	4.6	80	10 amp	13.2 lb	30.71 x 26.46 x 1.38 in
GP-ECO-20	1.3	20	10 amp	3.97 lb	13.58 x 18.50 x 0.98 in
GP-ECO-10	0.7	10	Not required	1.7 lb	13.19 x 9.25 x 0.98 in

Weight and Dims refer to the panel.

SOLAR FLEX KITS

Conforms to the RV rooftop and eliminates any need for custom mounts. Includes a digital solar controller and can be mounted with adhesive or screws for a secure install. Expand solar capabilities with an expansion kit.





SOLAR FLEX	AMPS	WATTS	CONTROLLER	WEIGHT	DIMS
GP-FLEX-100	5.6	100	30 amp w/ Bluetooth®	2.9 lbs	44.6 x 21.4 x 0.1 in
GP-FLEX-55	2.8	55	10 amp	1.6 lbs	42.1 x 11.3 x 0.1 in
GP-FLEX-35	1.7	35	10 amp	1.1 lb	24.4 x 14.96 x 0.1 in
GP-FLEX- 100E*	5.6	100	Not required	2.9 lbs	44.6 x 21.4 x 0.1 in
GP-FLEX- 55E*	2.8	55	Not required	1.6 lbs	42.1 x 11.3 x 0.1 in

*Expansion kits

Our largest solar kits. Perfect for full time RVing. The solar allelectric kits are great for systems with large power demands. These kits are easy to install, and include a solar controller, MC4 cables, and all mounting hardware.



ALL-ELECTRIC KITS

SOLAR AE-6 1140 watts

Suggested:



- + x 6 to 8

SOLAR AE-4 760 watts

Suggested:



- + x 4 to 6

Eliminating the need for conventional battery charging, the solar all-electric kits are great for systems with all electric residential fridges.

- Our largest rigid-panel kits
- 40-amp MPPT solar controller(s)
- GP-CEP-25, 25' MC4 cables, 1 red and 1 black
- Mounting hardware
- 50 Amp DC Breaker
- PV Disconnect

	THE PARTY OF THE P
Pair with our Inverter Charger to power your AC loads.	Can transer.
+ + + + +	C300
	U. Series
Sold separately.	. 2222 .

ALL ELECTRIC KIT	PANELS	WATTS	AMPS	CONTROLLER
SOLAR AE-6	6	1140	55.8	GP-MPPT-40 (X2)
SOLAR AE-4	4	760	37.2	GP-MPPT-40

SOL OR FLEX

These kits with flexible solar modules provide lightweight power and installation versatility.

FLEX-500 KIT

- 500 watts, 28 amps of solar power (5x 100-watt solar panels)
- 40-amp MPPT solar controller
- GP-CEP-25, 25' MC4 cables, 1 red and 1 black
- 50 Amp DC Breaker
- PV Disconnect
- Mounting hardware





- 200 watts, 11.2 amps of solar power (2x 100-watt panels)
- 30 amp PWM Bluetooth® solar controller
- MC4 cables, 1 red and 1 black
- Mounting hardware





FLEX-500 Pictured

SOLAR FLEX	PANELS	WATTS	AMPS	CONTROLLER
GP-FLEX-500	5	500	28	40-amp MPPT
GP-FLEX-200	2	200	11.2	30 amp w/ Bluetooth®

These kits are perfect as occasional battery chargers or as an additional power source for any rooftop solar kit. Plug & Play connectivity means fast and easy set-up. Includes 12' UV cables and a durable carrying case.



plug adapter

Digital solar

Battery clamps Look for RVs pre-wired with a SOLAR ON THE SIDE™ port.





PORTABLE SOLAR KIT	AMPS	WATTS	CONTROLLER	DIMS (OPEN)	DIMS (CLOSED)	WEIGHT
GP-PSK-200	11.4	200	30 amp	40.0 x 53.9 x 3.4 in	40.0 x 27.2 x 3.4 in	51 lbs
GP-PSK-130	6.9	130	10 amp	32.48 x 39.76 x 1.38 in	32.48 x 19.88 x 2.76 in	33 lbs
GP-PSK-90	4.7	90	10 amp	21.65 x 39.76 x 1.18 in	21.65 x 19.88 x 2.36 in	19.8 lbs

Weight and Dims refer to the panel.

ACCESSORIES (SOLD SEPARATELY)				
GP-PSK-X30	GP-PSK-7PIN			
30' Extension Cable	Trailer Plug Adapter			

COMPLETE SOLAR SYSTEMS





Get freedom to use your AC and DC appliances anywhere with Go Power! complete solar and inverter kits. These kits all include a 30 amp PWM solar controller (now fearuring Bluetooth® Wireless Technology), an inverter remote and install kit.

SOLAR EXTREME



WATTS	AMPS		
570 (3x 190W)	27.9		
INIVEDTED CHARCED			

3000 watt pure sine wave inverter charger (with built-in 125 amp battery charger and 50 amp transfer switch)

SOLAR ELITE



WATTS	AMPS		
380 (2x 190W)	18.6		
INVERTER CHARGER			

2000 watt pure sine wave inverter charger (with built-in 100 amp battery charger and 50 amp transfer switch)

WEEKENDER ISW



WATTS	AMPS			
190	9.3			
INVERTER / TRANSFER SWITCH				

1500 watt industrial pure sine wave inverter and prewired 30 amp transfer switch

SOLAR CONTROLLERS

A charge controller is an essential component of your photovoltaic (PV) system. The controller maintains the life of the battery by protecting it from overcharging. When your battery has reached a 100% state of charge, the controller prevents overcharging by limiting the current flowing into the batteries from your solar array.

GP-PWM-30-UL



BLUETOOTH® ENABLED SOLAR CONTROLLER

- Easy to read backlit digital display
- Lithium compatible
- Dual bank battery charging
- ISW Inverter on/off control
- 4.25 x 748 x 1.38 in
- Heavy-duty terminals
- Built-in USB charge port
- Maximum Power Boost tops up batteries at the end of daylight
- 5-year warranty

Bluetooth® Capabilities

Using the Go Power! Connect app, you can connect to your PWM-30-UL controller to:

- View essential battery stats, including:
 - Battery Voltage
 PV Charging Current
 Battery State of Charge
 (SOC)
- Set the battery type and charging profile
- Turn a compatible Go Power! ISW Inverter on or off
- Toggle Maximum Power Boost mode

GP-PWM-10-FM



- 10-amp, flush mounted digital solar controller
- Easy to read backlit digital display
- Lithium compatible
- Heavy-duty terminals
- Built-in USB charge port
- 4 battery charging profiles (including Lithium)
- 5-year warranty
- 3.94 x 4.02 x 1.14 in



GP-MPPT-40



Using the most efficient charging algorithm for RVs, the GP-MPPT-40 regulates and prevents the solar panel from overcharging batteries.

- Maximum Power Point Tracking (MPPT) charging
- 3 battery charging profiles
- Maximizes all power from your solar modules
- Stackable: add an additional controller for 80A capacity
- Easy-to-read backlit digital remote display
- 5-year warranty





Go further off-the-grid with the new Go Power! Lithium Iron Phosphate solar battery.

GP-LIFEPO4-100

Built specifically for mobile applications, this deep cycle battery is ideal for use in an RV. Includes a 10-year warranty.

BATTERY	VOLTAGE	CAPACITY	WEIGHT	DIMENSIONS
GP-LIFEPO4-100	12V	100AH @C20	36 lbs	12.9x7x9.2in
GP-LIFEPO4-250	12V	250AH @C50	80 lbs	20.5x9.5x8.8in





GP-AGM-224-6V

Specifically designed for solar, the AGM deep-cycle batteries offer maintenance-free, sealed construction and integrated carrying handles. UL listed, the battery is available in 6V and 12V models, and comes with a 2-vear warranty.

BATTERY	VOLTAGE	CAPACITY	WEIGHT	DIMENSIONS
GP-AGM-100-12V	12V	100AH @C20	67.5 lbs	12x6.6x8.1in
GP-AGM-224-6V	6V	224AH @C20	67.3 lbs	10.2x7.1x9.7in

C Series **INVERTER/CHARGER**

A 3-in-1 system combining an inverter, battery charger, and automatic transfer switch to save space and simplify installation. IC Series Inverter Charger Kits are available in 2000 and 3000 watt models, and come with the ICR-50 Remote, 50' of cable, and a 3-year warranty.

- > 125 AMP (3000W) OR 100 AMP (2000W) BATTERY CHARGER
- AVAILABLE IN 2000 WATT AND 3000 WATT
- > EASY INSTALL: BUILT IN HANDLES
- **POWER SHARE TECHNOLOGY**
- **100 AMP PASS THROUGH**

Included in Solar Extreme











& Solar Elite complete systems

IC SERIES PACKAGE	WATTS	BATTERY CHARGER	REMOTE	TRANSFER SWITCH	WEIGHT
GP-IC-3000-12-PKG	3000	125 amps	Included	2x 50 amps	51.9 lbs
GP-IC-2000-12-PKG	2000	100 amps	Included	2x 50 amps	38.7 lbs

POWER INVERTERS



Premium mobile power in a sleek, lightweight profile. Bring reliable power on the road with Go Power! Industrial Pure Sine Wave Inverters, available in 200-3000 watts. Provide peace of mind when powering electronics with a **2-year warranty**. All models also available in 24v.



c(UL)us on select inverters

PURE SINE WAVE INVERTERS	WATTS	SURGE	OUTLETS	INVERTER CABLE KIT	REMOTES	CULS	WEIGHT & DIMS
GP-ISW3000-12	3000	6000	Hard wire	Use GP-DC-KIT5	Use GP-ISW-R / GP-SWR-A	✓	18.08 lbs 17.40" x 10.04" x 6.22"
GP-ISW2000-12	2000	4000	2 GFCI	Use GP-DC-KIT4	Use GP-ISW-R / GP-SWR-A	✓	11.55 lbs 17.45" x 9.76" x 3.27"
GP-ISW1500-12	1500	3000	2 GFCI	Use GP-DC-KIT3	Use GP-ISW-R / GP-SWR-A	✓	9.13 lbs; 16.59" x 9.76" x 3.27"
GP-ISW1000-12	1000	2000	2 GFCI	Use GP-DC-KIT2	Use GP-ISW-R / GP-SWR-A	✓	7.19 lbs; 14.65" x 7.87" x 3.27"
GP-ISW700-12	700	1400	2 GFCI	Use GP-DC-KIT2	Use GP-ISW-R / GP-SWR-A	✓	5.73 lbs; 13.00" x 7.87" x 3.27"
GP-ISW400-12	400	800	2 GFCI	Use GP-DC-KIT1	Use GP-ISW-R / GP-SWR-A	✓	3.5 lbs 7.4" x 5.9" x 2.7"
GP-ISW200-12	200	250	2 GFCI	Use GP-DC-KIT1	Use GP-ISW-R / GP-SWR-A	×	3.5 lbs 7.4" x 5.9" x 2.7"

HEAVY DUTY MODIFIED SINE WAVE INVERTERS

Economical and reliable power solutions for running lights, appliances, and other resistive loads. The 12-volt Go Power! Modified Sine Wave Inverters range from 225 to 5000 watts and come with a **1-year warranty**.



MODIFIED SINE WAVE INVERTERS	WATTS	SURGE (3ms)	OUTLETS	INVERTER CABLE KIT	REMOTES	WEIGHT & DIMS
GP-5000HD	5000	10000	4	Use GP-DC-KIT5	Use GP-HD-R	15.65 lbs: 18.50" x 9.92" x 4.13"
GP-3000HD	3000	6000	4	Use GP-DC-KIT5	Use GP-HD-R	10.54 lbs: 11.41" x 9.92" x 4.13"
GP-1750HD	1750	3500	3	Use GP-DC-KIT3	Use GP-HD-R	6.42 lbs: 8.07" x 8.86" x 3.50"
GP-1000HD	1000	2000	2	Use GP-DC-KIT2	Use GP-HD-R	3.11 lbs: 9.44" x 4.88" x 2.95"
GP-800HD	800	1600	2	Use GP-DC-KIT2	Use GP-HD-R	2.31 lbs; 7.48" x 4.88" x 2.95"
GP-400HD	400	800	2	Use GP-DC-KIT1	N/A	1.54 lbs; 6.30" x 4.25" x 2.64"
GP-225HD	225	450	2	Use GP-DC-KIT1	N/A	1.01 lbs; 5.27" x 3.86" x 2.05"

CABLE ENTRY PLATE

Pair the Cable Entry Plate with a Go Power! Solar Kit to reduce unnecessarily exposed cables on the roof.

- Cuts down on panel installation time
- Protects cable connections
- Connects with industry standard MC4 cables (included in Go Power! kits)
- Comes in lengths 3-25 feet
- 5 year warranty





SMART CONVERTER/CHARGERS

Compact and powerful, Go Power! smart converter/chargers offer fast, accurate charging. Designed for 1-bank battery systems. Built-in, 4-stage smart charger helps your batteries last longer. **2-year warranty**.



CONVERTER/ CHARGER	AMPS
GPC-100-MAX	100
GPC-75-MAX	75
GPC-55-MAX	55
GPC-45-MAX	45
GPC-35-MAX	35

TRANSFER SWITCHES

The ideal solution to prevent AC back-feed when integrating an inverter directly into the AC electrical system or generator. **2-year warranty.**



TRANSFER SWITCH	AMPS
TS-50	50
GP-TS (PRE-WIRED)	30
TS-30	30

INVERTER FUSES & CABLE KITS



Installation kits include everything to connect your inverter to your batteries: 10' heavy gauge battery cables, tie downs, appropriate inverter fuse, and fuse block. Fits most inverters.

INVERTER FUSE & CABLE KITS	USE WITH
GP-DC-KIT5	2600-3000 watt inverters
GP-DC-KIT4	2000-2500 watt inverters
GP-DC-KIT3	1100-1800 watt inverters
GP-DC-KIT2	600-1000 watt inverters
GP-DC-KIT1	100-500 watt inverters

INVERTER REMOTES

Controls an inverter with the touch of a button.







INVERTER REMOTES	USEWITH
GP-HD-R	GP-800HD, 1000HD, 1750HD, 3000HD, 5000HD
GP-SWR-A	GP-ISW200, 400, 700, 1000, 1500, 2000, 3000
GP-ISW-R	GP-ISW200, 400, 700, 1000, 1500, 2000, 3000

INVERTER FUSES & FUSE BLOCKS

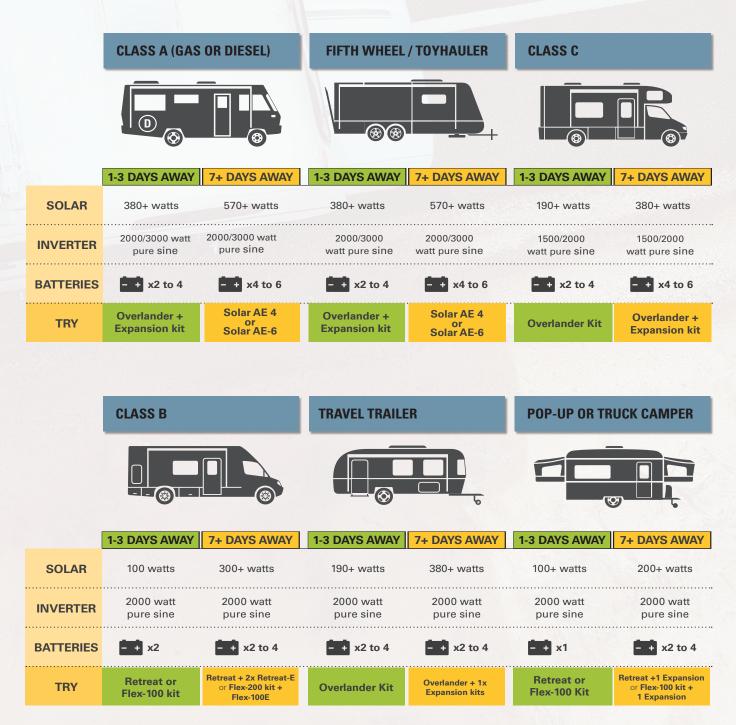


Safeguard equipment with ultra-durable Class-T, DC rated fuses.

FUSES & BLOCKS	AMPS
FBL-400	400
FBL-300	300
FBL-200	200
FBL-110	110

SOLAR SIZING GUIDELINES

Use the chart below to find out what solar and inverter kits will work best for an average RV in each class. Visit our website and use our calculator at gpelectric.com/calculator to find the best Go Power! solution for your needs.



To learn more about solar systems, visit our website at gpelectric.com/education

SOLAR SIZING WORKSHEET

How much power do you need? Consider how many days you'll be off the grid and how much power you'll use. Keep costs down by sizing for just what you need. Most Go Power! solar kits and systems are easily expandable as your power needs grow.

Step 1: Fill in the quantity of items and number of hours each appliance runs per day.

12V, DC Appliances	Amps	X Qty.	X Hours Run Per Day	= Total Amp Hours
10 Watt Light	0.08			
15 Watt Light	1.25			
Water Pump	4			
12 Volt TV	3			
SC Fan*	4			
Furnace Fan*	8			
12 Volt Stereo	0.8			
Refrigerator	0.4			
Propane Alarm Other	0.21	1	24	5.04

^{*}Fan and furnace are not typically run at the same time.

120V, AC Appliances*									
AC Fridge**	10								
TV	4						187		
VCR	3								
Satellite Dish	4								
Microwave	100		3						
Toaster	66								
Coffee Maker	60								
Blender	12								
Computer	25								
Laptop Computer	5								1818
Other									1

^{*}All amperage ratings are based on a 12 volt system.

Step 2: Total Weekly Amps Calculation

Multiply total amp hours per day from Step 1 by the number of days of use per week (i.e.: weekend camping: multiply total amp hours x 2 days).

Amps Per Day:	*When sizing your battery bank
X	
# of Days of Use Per Week:	
Amp Hours Per Week	

Step 3: Solar Power Output

Match your power draw from Step 2 to the product listed below:

listed	Delow.	
Amp Hours Per Week	Recommended Solar Kit (DC only)	Suggested # of 12V Batteries
29	10W Eco Kit	1
55	20W Eco Kit	1
71	35W Solar Flex Kit	1
117	55W Solar Flex Kit	1 /2
197	80W Eco Kit	2
193	90W Portable Solar Kit	2
228	100W Retreat Kit	2
236	100W Solar Flex Kit	2
290	130W Portable Solar Kit	2
390	190W Overlander Kit POPULAR KI	2
470	200W Portable Solar Kit	4
470	200W Solar Flex Kit	4
781	380W Overlander Kit + Overlander Expansion Kit	4
1411	500W Solar Flex Kit	4-6
1172	570W Overlander Kit + 2x Overlander Expansion Kits	4–6
1563	760W Solar All-Electric Kit	4-6
2344	1140W Solar All-Electric Kit	4-8
	Recommended Complete Systems (DC and AC)	
390	190W Weekender System	2
781	380W Solar Elite System	4
1172	570W Solar Extreme System	4–6

Please note: Amp hours based on 6 hours of usable light per day.



A COMPANY YOU CAN TRUST

Since 1996, Go Power! has provided solar power solutions to RVers, campers, and boaters. We have industry-leading warranties and excellent technical support.

sales@gpelectric.com | 1.866.247.6527 | gpelectric.com

es@gpelectric.com | 1.866.247.6527 | gpelectric

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This brochure is printed on 10% post consumer recycled paper.



^{**}Fridge amps based on a 4.4 cubic foot fridge, running 12-hours/day.