



# RECREATIONAL Power Guide

- Solar Kits
- Charge Controllers
- Inverter/Chargers
- Inverters
- Battery Chargers
- Accessories



Photo courtesy of GoRVing.



[samlexamerica.com/solar](https://www.samlexamerica.com/solar)

# Index

RV Off-Grid Power Solutions .....	2
All-in-One Solar Charging Kits .....	3
What's in Your SRV Kit .....	4
Customize or Expand Your Solar System .....	5
Charge Controllers .....	5
Solar Accessories .....	6
Portable Solar Charging Kits .....	7
Battery Maintainers .....	8
PST Series Inverters .....	9
NTX Series Inverters .....	11
SSW Series Inverters .....	12
SAM Series Inverters .....	13
Inverter Accessories .....	14
Inverter/Chargers, EVO™ Series .....	15
Battery Chargers .....	19
Transfer Switch .....	20
Battery Accessories .....	21
Size Your Inverter .....	22

## Solar power doesn't have to be complicated.

Whether you want to brew a cup of coffee, power up your tools or tune in to your favourite TV program, we can make the process as simple as flipping the switch.



Enjoy the sounds of nature not a generator

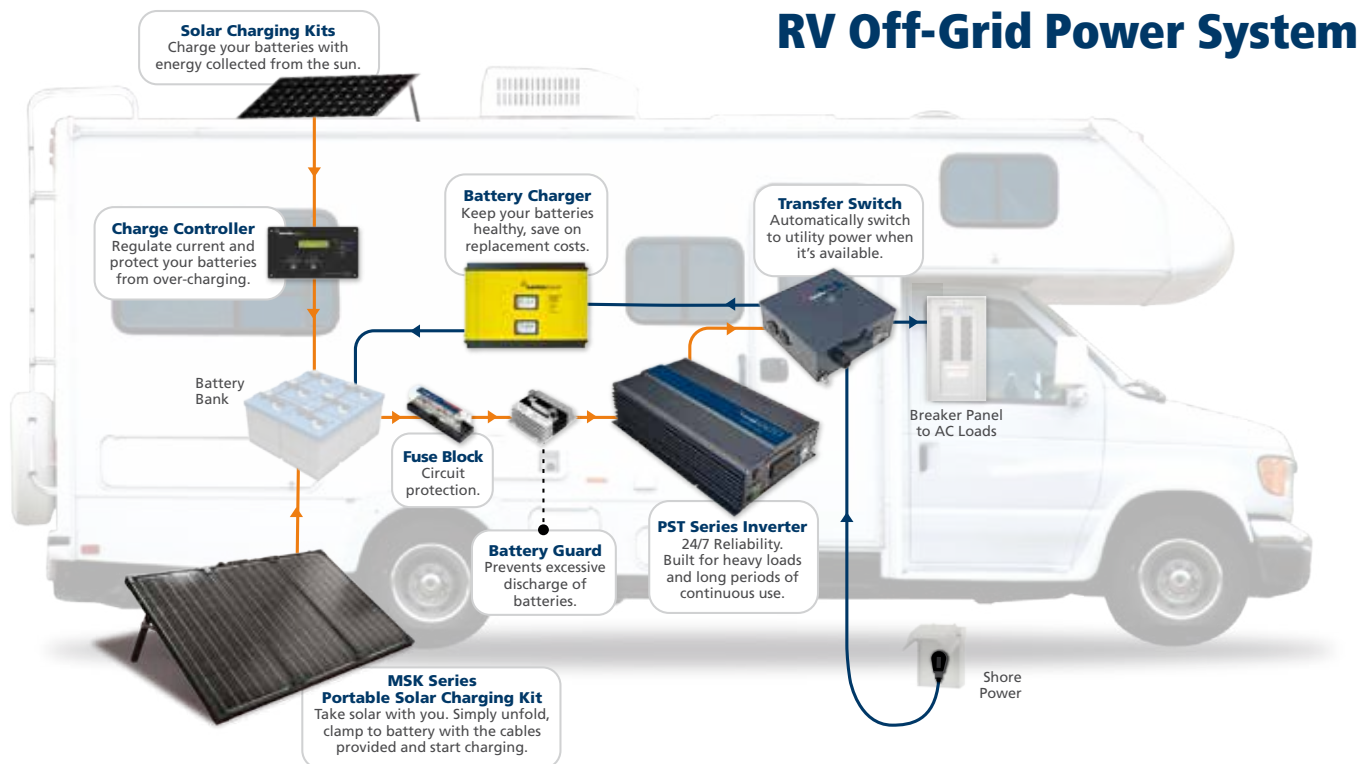


Extend your stay and battery life with energy from the sun



Match your lifestyle with **Solar + Power**

Still have questions about your Off-Grid Power Solution? You tell us what you want to power and we'll tell you how. Call our live technical support team at **1-800-561-5885**. Samlex makes Solar simple.



Samlex America Inc. makes every reasonable effort to ensure the accuracy and validity of the information provided in its product guide. However, as policies, price points, dates, conditions, and information are continually changing, Samlex America Inc. reserves the right to change at any time without notice, information contained in this product guide and make no warranties or representations as to its accuracy. Copyright © 2023 by Samlex America Inc. All rights reserved. © Registered Trademark of Samlex America Inc.



# RV Off-Grid Power Solutions

**NEW** Your **Lifestyle One Bundle** | Solar + Power Simplified

Samlex presents its **NEW Bundles!** Sell more solar by introducing customers to the bundle that fits their lifestyle. The new bundles are easy to sell, as we provide a step-by-step guide on how to match your customer's RV lifestyle goals with a solar system. Confidently recommend a system and even swap out components if needed.



## Match RV Lifestyle

Match RV LIFESTYLE	RV TYPE	Power NEEDS	# PEOPLE	Days AWAY	Recommended BUNDLE
					<b>200 WATTS</b>

## What's Included in the Bundle

**200 WATTS**

EXPLORE

**200W Solar Charging Kit SRV-200-30A**  
Solar Panel, Charge Controller, Connecting Wires, Mounting Brackets & Hardware

**5W Battery Maintainer SC-05**

**1500W Pure Sine Inverter NTX-1500-12**

**Remote Control NTX-RC**

**30A Transfer Switch STS-30**

**Installation Kit DC-2500-KIT**  
Cables, Fuse Assembly & Hardware

**(Not included)**

Samlex has a bundle for most common RV lifestyles:

**200 WATTS**

EXPLORE

Basic Necessities or Starter

**400 WATTS**

SHARE

Weekends Away

**600 WATTS**

ENJOY

Completely Off-Grid or GONE FOR WEEKS!

You can still completely customize your RV Power Solution if that is what your customer needs. Whatever works best - we have you covered so you can support your customers in their quest to be off-grid or boondocking.

For more details about Samlex Bundles and Customized Power Solutions, contact us or visit our website - [samlexsolar/bundles](http://samlexsolar/bundles).



All bundles are lithium compatible.

# ALL-IN-ONE Solar Charging Kits

## SRV Series Kits


Every SRV kit includes a lithium compatible 30 Amp flush mount charge controller, connecting wires, mounting brackets and hardware. All the parts you need to start using solar today.



SRV-100-30A

SRV-150-30A

SRV-200-30A

 Talk to your dealer about install options. We also have step by step videos online.

**200W, 150W & 100W**  
MODELS AVAILABLE

MODEL	SOLAR PANEL	WEIGHT		DIMENSIONS		CHARGING AMPS
		(KG)	(LBS)	(MM)	(INCH)	
SRV-200-30A	200W	12.0	26.4	680 x 1500 x 35.0	26.77 x 59.05 x 1.39	9.97 Amps
SRV-150-30A	150W	12.0	26.4	660 x 1474 x 35.3	26.0 x 58.03 x 1.39	8.82 Amps
SRV-100-30A	100W	8.0	17.63	552 x 1200 x 35.0	21.73 x 47.25 x 1.39	6.07 Amps



# What's in Your SRV Kit



200W Panel

## 1 Solar Panel

Samlex solar panels are constructed with top of the line solar cells and materials that comply with the highest industry standards.

- High efficiency
- Waterproof connectors
- High transparency tempered glass
- Anodized aluminium frames
- Resilient to harsh weather conditions



SCC-30AB



## 2 Charge Controller

Samlex 30 Amp Flush Mount Charge Controllers regulate current and protect your batteries from over-charging. Features of this 4-stage Charge Controller include: LED status indicators, LCD display, battery equalization and 8 charge settings for most battery types, including Lithium.



SCW-20-2

## 3 Connecting Wires

A pair of weather resistant 20' solar panel connecting wires are provided to connect your panel to a charge controller or to an additional panel. One end of each wire is blunt and the other has a pre-assembled male or female multi-contact connector. Specifically designed for use in solar systems. Also sold separately.



SM5-KIT

## 4 Mounting Brackets & Hardware

Mounting brackets are provided to secure the solar panel to a flat surface while providing space underneath to facilitate cooling. Constructed in aluminum, the brackets have large surface areas on top for better stability and five available drilling holes on the bottom for convenient installation. Also sold separately.

## Not all solar kits are made the same...

Samlex Solar panels are weather resistant and built to last – even in harsh conditions of hail or heavy snow. Aluminum frames will not rust. **Samlex guarantees its solar panels with power warranty.\***

Every Samlex SRV ALL-IN-ONE Solar Charging Kit includes a flush mount 30A charge controller which quickly connects to the cables on the back of the solar panel. One 30A controller can manage up to 600 Watts of solar power – just add panels as needed. The digital display shows charging stage, voltage, current, and battery Amp Hours. **Battery equalization restores battery capacity, revives efficiency and extends battery life.**

Every Kit includes a set of aluminum mounting brackets with all of the hardware required to mount your solar panel securely to your RV rooftop. Mounting brackets are specifically designed for placement flexibility around rooftop obstacles.

To ensure a leak-free installation, Samlex provides industry leading fasteners that expand to prevent moisture from getting inside your RV.

Samlex Solar uses only the highest grade of connecting wires, all coated with UV protective material to combat weather decay. Inexpensive cables and connectors without weather protection can erode after only a few years of use. **Samlex cables are built to perform consistently in the toughest conditions.**

\* Refer to specific product warranties for details and limitations.



# Customize or Expand Your Solar Power System

## 1 SSP Series Panel Kits

Purchase an SSP Solar Panel Kit and Charge Controller separately. Tailor a system based on your power needs. Combine different panels, or add a panel in the future. Each Panel Kit includes a solar panel, connecting wires and mounting brackets.

### ALSO USE AS AN EXPANSION KIT

Add branch connectors, SBC-2 (sold separately) to connect panels in parallel.

### 200W, 150W & 100W MODELS AVAILABLE

MODEL	SOLAR PANEL	WEIGHT		DIMENSIONS		CHARGING AMPS
		(KG)	(LBS)	(MM)	(INCH)	
SRV-200-KIT	200W	12.0	26.4	680 x 1500 x 35	26.77 x 59.05 x 1.39	9.97 Amps
SSP-150-KIT	150W	12.0	26.4	660 x 1474 x 35.3	26.0 x 58.03 x 1.39	8.82 Amps
SSP-100-KIT	100W	8.0	17.63	552 x 1200 x 35.3	21.73 x 47.25 x 1.39	6.07 Amps



## 2 Charge Controllers

All our charge controllers monitor and control the flow of current from your solar panel going to your batteries. They prevent over-charging and can extend the life of your batteries.



SCC-30AB



EVO-30AB



MSK-20A

MODEL	WEIGHT		DIMENSIONS		CHARGING POWER
	(KG)	(LBS)	(MM)	(INCH)	
SCC-30AB	0.4	0.8	190 x 108 x 34	7.48 x 4.25 x 1.38	30 Amps
EVO-30AB	0.4	0.8	122 X 105.5 x 47.6	4.81 x 4.15 x 1.87	30 Amps
MSK-20A	0.3	0.66	159.6 x 81.4 x 47.88	6.28 x 3.2 x 1.88	20 Amps
MSK-10A	0.132	0.29	138.7 x 69.3 x 37	5.46 x 2.73 x 1.46	10 Amps
SCC-1208L	0.125	0.276	97 x 46 x 26	3.8 x 1.8 x 1.0	8 Amps
30AB-TS	-	-	10 Meters	33 Feet	-
MSK-TS	-	-	3 Meters	10 Feet	-



MSK-10A



SCC-1208L

## Charge Controllers Features

### SCC-30AB

- 30 Amp Flush Mount Charge Controller
- Manages up 600W of solar power
- 8 charge settings for most battery types
- Included in every SRV Solar Charging Kit

**5 YEAR LIMITED WARRANTY**



### EVO-30AB

- Use as a stand-alone charge controller or expand functionality by adding other EVO™ products
  - When connected to the EVO™ inverter/charger, the EVO-30AB will follow the programming set in the unit
  - Add the EVO-RC-PLUS and it will display alarms and status for both EVO-30AB and EVO™ inverter/charger

**5 YEAR LIMITED WARRANTY**



### MSK-20A

- 20 Amp Charge Controller
- 3 stage intelligent Series Type PWM charging
- Electronic protections: overheating, overcharging, over discharge, overload and short circuit
- Reverse protection any combination of solar module and battery

**2 YEAR LIMITED WARRANTY**

### MSK-10A

- 10 Amp Charge Controller
- 3 stage intelligent Series Type PWM charging
- LED display with 3 stages of intelligent charging
- Backflow current protection for your panels

**2 YEAR LIMITED WARRANTY**

### SCC-1208L

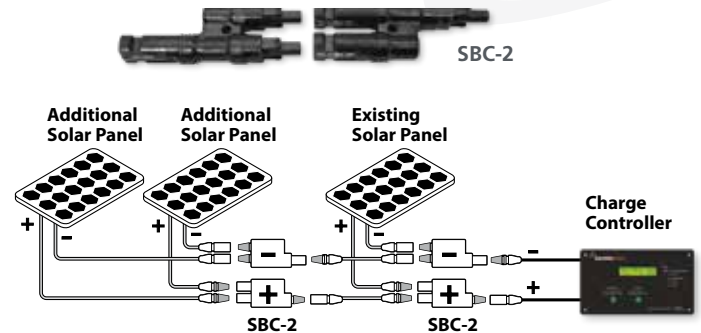
- 8 Amp Charge Controller
- Rated IP65, sealed, splash proof weather resistant design for the outdoors
- Automatically turns ON lights when dark and turns OFF during the day
- Wide operating temperature range of -40°C to 60°C

**5 YEAR LIMITED WARRANTY**

## 3 Solar Accessories

### Branch Connectors

Use to connect panels in parallel. (Sold in male/female pairs).



### Connecting Wires (20')

SCW-20-2



### Mounting Brackets & Hardware

SM5-KIT



### Multi-contact Connectors

MC4-2



ADJ-28

### Adjustable Panel Tilt Mount

Improve charging by up to 40%.  
Over 30 adjustable settings.



# Portable Solar Charging Kits

## MSK Series

Take solar with you. Easy to use. Just unfold, clamp to your battery and start charging. Great for RVs, Cabins, Camping, Boats and for Emergency Backup Power.



MSK-90

### Features

- Solar panel is pre-wired with battery clamps for a quick and easy connection, 16' cable
- Adjustable legs allow for maximum sun exposure
- Built-in 3 stage 10 Amp charge controller manages the charge to the battery and prevents overcharging
- For use with 12V batteries (not included)
- Tri-fold panel for easy storage and transport

### 10 YEAR POWER WARRANTY

### How Much Power Can I Generate Per Day?

MSK-90
Up to <b>35</b> Amp Hours*
MSK-135
Up to <b>53</b> Amp Hours*

\* Based on optimal sunlight and turning the panel a few times throughout the day to follow the sun.

MODEL	WATTS	WEIGHT*		MSK DIMENSIONS OPEN		MSK DIMENSIONS FOLDED		CHARGING AMPS
		(KG)	(LBS)	(MM)	(INCH)	(MM)	(INCH)	
MSK-90	90W	11.45	25.2	1035 x 645 x 30	40.75 x 25.39 x 1.18	673 x 360 x 114	26.25 x 14.2 x 4.5	5.68 Amps
MSK-135	135W	16.18	35.6	1515 x 620 x 30	59.65 x 24.41 x 1.18	635 x 516 x 114	25 x 20.3 x 4.5	8.52 Amps
MSK-XLR	2-pin XLR Adapter (sold separately)							
MSK-EXT	Extension Cable (sold separately) 10 meters / 33 feet							

\* Weight includes carry bag and cables.



# What's in Your MSK Kit



1  
Tri-fold Solar Panel



2  
Protective Carrying Case



3  
MSK-10A Built-in Charge Controller



4  
Pre-wired Battery Clamps



5  
2-pin Adapter

## Optional:



MSK-XLR 2-pin XLR Adapter



MSK-EXT Extension Cable

# Battery Maintainers

## SunCharger Series

Maintain your battery in your RV or boat, which saves you money by extending the life of your battery.



## Features

- Maximum efficiency
- Prevents back flow of current from the battery to the panel
- No need for additional Charge Controller
- Semi-flexible panel construction
- Rugged, weatherproof design
- 10ft cable
- 1ft cable with 12V power plug
- 1ft cable with ring terminals for battery



## 2 YEAR LIMITED WARRANTY

MODEL	WATTS	WEIGHT		CHARGING POWER
		(KG)	(LBS)	
SC-05	5W	0.36	0.8	0.39 Amps
SC-10	10W	0.54	1.2	0.79 Amps

\* May not be exactly as shown.

# Pure Sine Wave Inverters

## PST Series

### 24/7 Reliability - Robust and Reliable in Any Environment

Built for heavy loads and long periods of continuous use, giving you peace of mind knowing you will have AC power when you need it.



PST-1500-12

### Design Features

- Quiet operation – temperature controlled fan reduces energy consumption
- Extremely low interference – won't disrupt the reception of your TV, radio or audio equipment
- 1500 - 3000W models can be hard wired
- Clean and reliable AC power identical to household electricity
- Power sensitive devices like TV's, stereos and home office equipment
- Commercial grade design suitable for heavy duty loads, long periods of continuous operation and for emergency backup
- Wide operating DC input range: 10.5 to 16.5 VDC
- Low idle power draw
- Wide user temperature range

3 YEAR LIMITED WARRANTY







PST-3000-12

PST-300-12

## Optional Remote Controls



RC-15A

### RC-15A

- Power ON/OFF
- LED indicator for overload, over temperature and power
- Includes 15' cable
- For use with PST-600-12, and PST-1000F-12



RC-300

### RC-300

- LCD displays AC Volts, AC Amps, frequency, power (Watts), and power factor
- LED Indicators for overload, over temperature and power
- Includes 25' cable
- For use with PST-1500-12, PST-2000-12 and PST-3000-12

MODEL	NOMINAL DC INPUT	OUTPUT VOLTAGE	OUTPUT POWER	SURGE	DIMENSIONS		WEIGHT		INVERTER INSTALLATION	OUTLETS
					(MM)	(IN)	(KG)	(LBS)		
PST-120-12	13V	120 VAC	120W	120W	189 x 105 x 30.5	7.44 x 4.13 x 1.2	0.453	1.0	-	1
PST-150-12	12V	120 VAC	150W	300W	211 x 155 x 65.5	8.31 x 6.1 x 2.58	1.27	2.8	-	2
PST-300-12†	12V	120 VAC	300W	500W	246 x 155 x 65.5	9.69 x 6.1 x 2.58	1.57	3.46	-	2
PST-600-12†	12V	120 VAC	600W	1000W	276.2 x 238 x 82	10.87 x 9.37 x 3.23	2.70	5.90	DC-1000-KIT	2
PST-1000F-12	12V	120 VAC	1000W	2000W	397 x 238 x 82	15.63 x 9.37 x 3.23	4.00	8.80	DC-2000-KIT	2
PST-1500-12*†	12V	120 VAC	1500W	3000W	468.2 x 263 x 105.6	18.43 x 10.35 x 4.16	7.1	15.6	DC-2500-KIT	2
PST-2000-12*†	12V	120 VAC	2000W	3500W	468.2 x 263 x 105.6	18.43 x 10.35 x 4.16	7.1	15.6	DC-2500-KIT	2
PST-3000-12*†	12V	120 VAC	3000W	6000W	456.5 x 263 x 145	17.97 x 10.35 x 5.71	9.8	21.6	DC-3500-KIT	2
RC-15A	Optional remote for 600 and 1000 Watt models. 15' cable. Power ON/OFF.									
RC-300	Optional remote for 1500-3000 Watt models. 25' cable. Detailed monitoring and remote power operation.									

\* Hardwire capable

† Remote Input – Use to turn inverter ON/OFF with ignition start or any other Remote ON/OFF switch.



# Pure Sine Wave Inverters

## NTX Series

### Serious Performance, Simplified Feature Set

The NTX Series Pure Sine Wave Inverters are FCC certified to ensure no electrical interference when operating near sensitive equipment. These units are compact and lightweight and have a single variable speed fan for quiet operation. Size your load and select your inverter with our Inverter Sizing Guide, page 22, or use our run-time calculator online.



NTX-1500-12

### Features

- Samlex Hypersurge™ technology starts high surge loads with ease
- High efficiency and very low idle current
- 2 GFCI protected outlets (1000W, 1500W and 2000W models)
- Wide input voltage range
- NTX-3000-12 features a 30 Amp NEMA L5-30R locking AC outlet with mating plug and built-in GFCI protection for full power utilization

### FREE Remote Control Included with all Models!



NTX-RC

### NTX-RC

- Power ON/OFF
- 16' cable with RJ45 Connector
- Informative LDC display indicates Input Voltage, Output Voltage, Output Power (bar graph), Input and Output Fault.
- Power save mode
- Also sold separately

2 YEAR LIMITED WARRANTY



MODEL	NOMINAL DC INPUT	OUTPUT VOLTAGE	OUTPUT POWER	SURGE	DIMENSIONS		WEIGHT		INVERTER INSTALLATION	OUTLETS
					(MM)	(IN)	(KG)	(LBS)		
NTX-1000-12	12V	115 VAC	1000W	2000W	216 x 281 x 92	8.5 x 11.06 x 3.62	2.5	5.4	DC-2000-KIT	2
NTX-1500-12	12V	115 VAC	1500W	3000W	216 x 333 x 92	8.5 x 13.11 x 3.62	3.5	7.8	DC-2500-KIT	2
NTX-2000-12	12V	115 VAC	2000W	4000W	216 x 333 x 92	8.5 x 13.11 x 3.62	3.9	8.6	DC-2500-KIT	2
NTX-3000-12*	12V	115 VAC	3000W	6000W	216 x 451 x 92	8.5 x 17.75 x 3.62	5.5	12.0	DC-3500-KIT	1

NTX-RC Remote Control for use with all models, included.

\* NEMA L5-30R locking AC outlet with mating plug included



# Pure Sine Wave Inverters

## SSW Series

### Household Power (AC) at an Affordable Price

Ideal for powering cordless tool chargers, and office equipment.



SSW-600-12A

#### Features

- Compact and lightweight
- High surge: 2X continuous power
- Pure Sine Wave Power - ideal for sensitive loads
- Soft start and cool surface technology
- Comes with USB charging port
- Protections: Thermal, battery overload, short circuit and earth fault

2 YEAR LIMITED WARRANTY



MODEL	NOMINAL DC INPUT	OUTPUT VOLTAGE	OUTPUT POWER	SURGE	DIMENSIONS		WEIGHT		INVERTER INSTALLATION	OUTLETS
					(MM)	(IN)	(KG)	(LBS)		
SSW-350-12A	12V	115 VAC	350W	700W	200 x 155 x 57	8.86 x 6.10 x 2.32	0.70	1.50	Battery clamps	2
SSW-600-12A	12V	115 VAC	600W	1200W	230 x 155 x 57	10.0 x 6.10 x 2.32	0.90	2.00	Battery clamps	2



# Modified Sine Wave Inverters

## SAM Series

### Dependable Power When Pure Sine Isn't Needed

Easy to install and operate. Use SAM Series modified sine wave inverters to power your toaster, kettle, gaming system, laptop, power tools or water and air pumps. Size your load and select your inverter with our Inverter Sizing Guide, page 22, or use our run-time calculator online.



### Features

- Compact and lightweight
- 100 - 800 Watt models include a USB Charging Port
- USB Charging Ports are 2.1 Amps for charging the newest smart phones and tablets
- Low Battery Input Alarm
- Soft start and cool surface technology
- Universal protection circuit: thermal, battery, overload, short circuit, earth fault

### Optional Remote Control



### SAM-RC

- Power ON/OFF
- 16' cable with RJ45 Connector
- Bar Meter Monitor for battery charge level and output power
- Power save mode
- For use with 1000-3000W Models
- Sold separately

2 YEAR LIMITED WARRANTY



MODEL	NOMINAL DC INPUT	OUTPUT VOLTAGE	OUTPUT POWER	SURGE	DIMENSIONS		WEIGHT		INVERTER INSTALLATION	USB PORT	OUTLETS
					(MM)	(IN)	(KG)	(LBS)			
SAM-100-12	12V	115 VAC	100W	200W	130 x 64 x 39	5.1 x 2.5 x 1.5	0.13	0.30	12V plug	2.1A	1
SAM-250-12	12V	115 VAC	250W	500W	15 x 114.4 x 46	5.9 x 4.5 x 1.8	0.42	0.92	12V plug adaptor/ battery clamps	2.1A	1
SAM-450-12	12V	115 VAC	450W	900W	151 x 154 x 56.5	6.0 x 6.1 x 2.2	0.60	1.30	12V plug adaptor/ battery clamps	2.1A	2
SAM-800-12	12V	115 VAC	800W	1600W	218 x 180 x 59	8.6 x 7.0 x 2.4	1.32	2.91	battery clamps	2.1A	2
SAM-1000-12	12V	115 VAC	1000W	2000W	250 x 180 x 59	9.8 x 7.1 x 2.3	1.69	3.72	DC-2000-KIT	-	2
SAM-1500-12	12V	115 VAC	1500W	3000W	283 x 202 x 84	11.4 x 7.9 x 3.3	3.20	7.10	DC-2500-KIT	-	2
SAM-2000-12	12V	115 VAC	2000W	4000W	345 x 202 x 84	13.5 x 7.9 x 3.3	3.90	8.50	DC-2500-KIT	-	3
SAM-3000-12	12V	115 VAC	3000W	6000W	420 x 202 x 84	16.5 x 7.9 x 3.3	5.50	11.80	DC-3500-KIT	-	3
SAM-RC	For use with 1000 to 3000 Watt models. 16' cable.										



# Inverter Accessories

## Inverter Installation Kits

Choose your kit based on the size of your inverter

Model No. of Inverter Installation Kit	PST-600-12	PST-1000F-12	PST-1500-12	PST-2000-12	PST-3000-12	SSW-600-12A	NTX-1000-12	NTX-1500-12	NTX-2000-12	NTX-3000-12	SAM-800-12	SAM-1000-12	SAM-1500-12	SAM-2000-12	SAM-3000-12	SAM-1500C-12	EVO-1212F (HW)	EVO-2212	EVO-3012
<b>DC-1000-KIT</b> Cable: AWG#4   2 x 10 ft Fuse: 100A	•					•					•								
<b>DC-2000-KIT</b> Cable: AWG#2   2 x 10 ft Fuse: 200A		•					•					•							•
<b>DC-2500-KIT</b> Cable: AWG#2/0   2 x 10 ft Fuse: 300A			•	•				•	•				•	•		•			
<b>DC-2500-KIT-XL</b> Cable: AWG#2/0   2 x 15 ft Fuse: 300A			•	•				•	•				•	•		•			
<b>DC-3500-KIT</b> Cable: AWG#4/0   2 x 10 ft Fuse: 400A					•					•					•			•	•



DC-3500-KIT

Connect your inverter to a battery bank **SAFELY AND SIMPLY.**

Visit our website for full line of products.

## Fuses & Circuit Protection



DC-FA-100

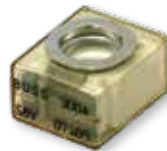


CFB2-400

### FUSE ASSEMBLIES AND FUSE BLOCK

DC-FA-100	100A Fuse Bar Assembly*
DC-FA-200	200A Fuse Bar Assembly*
DC-FA-300	300A Fuse Bar Assembly*
CFB1-200	200A Fuse Block Assembly
CFB2-400	400A Fuse Block Assembly

\* Fuse assembly includes single pole fuse bar, fuse insulating cap and hardware.



MRBF-300



JLLN-400

### INDIVIDUAL REPLACEMENT FUSES

MRBF-100	100A Replacement Fuse
MRBF-200	200A Replacement Fuse
MRBF-300	300A Replacement Fuse
JLLN-200	200A Replacement Fuse
JLLN-400	400A Replacement Fuse



DC-FB-2

### DOUBLE POLE FUSE BAR WITH INSULATING CAP (no fuse)

DC-FB-2	Includes nuts and washers (not shown)
---------	---------------------------------------

## Connecting the Fuse Block to the Battery



Battery end of positive cable cut and prepared for fitting into fuse block



Fitted fuse assembly



Positive cable connection to the battery with fuse block to protect cables

# Inverter/Chargers

## Evolution™ Series

### Why choose an Inverter/Charger?

The primary function of an inverter/charger is to charge a bank of batteries and convert power from the batteries into usable household power.



- Pure sine inverter, battery charger and transfer switch - ALL IN ONE device. Simplifies installation and maintenance.
- Run sensitive equipment and appliances with clean, pure sine AC power - same as you'd expect from the grid.
- Fast synchronized transfer (<16ms) means no power interruption when the power source changes from grid/generator to inverter.

1 Pure Sine Inverter

2 Battery Charger

3 Transfer Switch

**One device does it all!**



### Features

#### Programmable Battery Charger with Equalization

Choose between Adaptive Algorithm or User Programmable multiple charging profiles to reduce excess charging and extend battery life. For most battery types, including Lithium.

#### Input for Solar Charge Controller or other DC Source

Connect a solar charge controller directly to the EVO™ inverter/charger. Other DC sources could be wind power for fixed off-grid installations, or the vehicle alternator in mobile fleet applications.

#### 3X Surge Capability

Allows you to turn on and power high surge items like sump pumps, compressors, refrigerators, freezers, air conditioners, quartz lamps, microwaves and heaters.

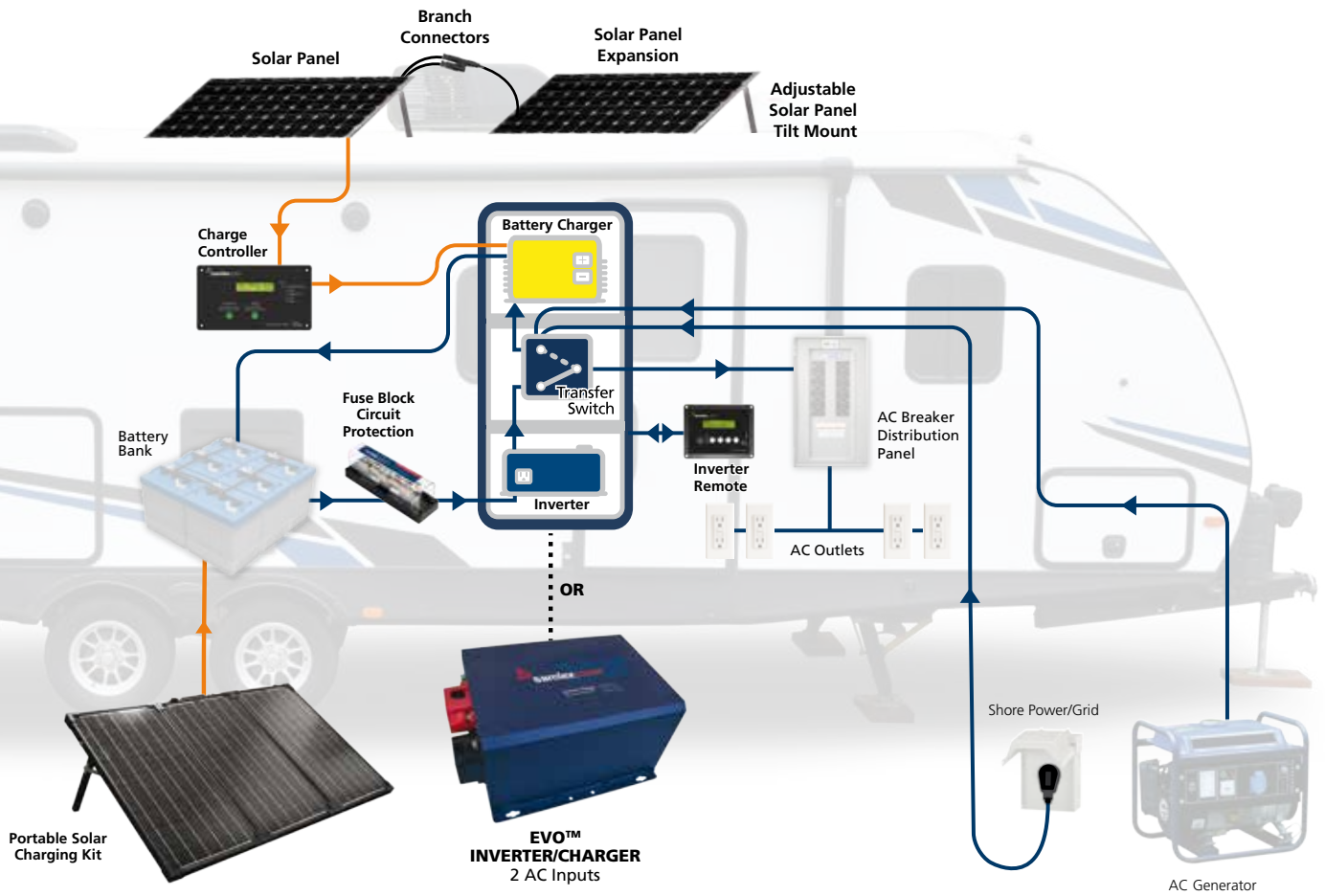
#### Active Power Boost

Allows inverter loads to exceed the continuous power output for short durations. No need to upsize to a larger unit to handle heavy surge loads, saving you money.

#### 3 YEAR LIMITED WARRANTY







**EVO™ SERIES**  
Dual AC Inputs



This inverter/charger accepts input from the grid, a generator, and a solar charge controller to charge a bank of batteries – and all can be connected at the same time. The unit will automatically switch between power sources as they become available with priority being given to the grid.



**EVO™ F SERIES**  
Single AC Input



This inverter/charger has 1 AC input which means it accepts grid or generator input. At 1200W output and a lower height clearance, the F Series is perfect for those small spaces. It also comes with a hardwire option.



# Inverter/Chargers

## Evolution™ Series

### Remote Controls

- Comes with SD card slot which supports up to 32GB card
- Log historic power consumption, inverter function, battery charging activity, faults and the conditions during use
- Program parameters and profiles for EVO™ Inverter/Charger
- Comes with 33' RJ-45 data cable
- Sold separately

**3 YEAR LIMITED WARRANTY**



EVO-RC

### EVO-RC

- 2 rows of 20 character alpha numeric LCD display
- Lightweight plastic enclosure



EVO-RC-PLUS

### EVO-RC-PLUS

- 4 rows of 20 character alpha numeric LCD display
- Robust metal enclosure



Off-grid RV living requires an electrical system to maintain the comforts of home when you don't have access to grid power.



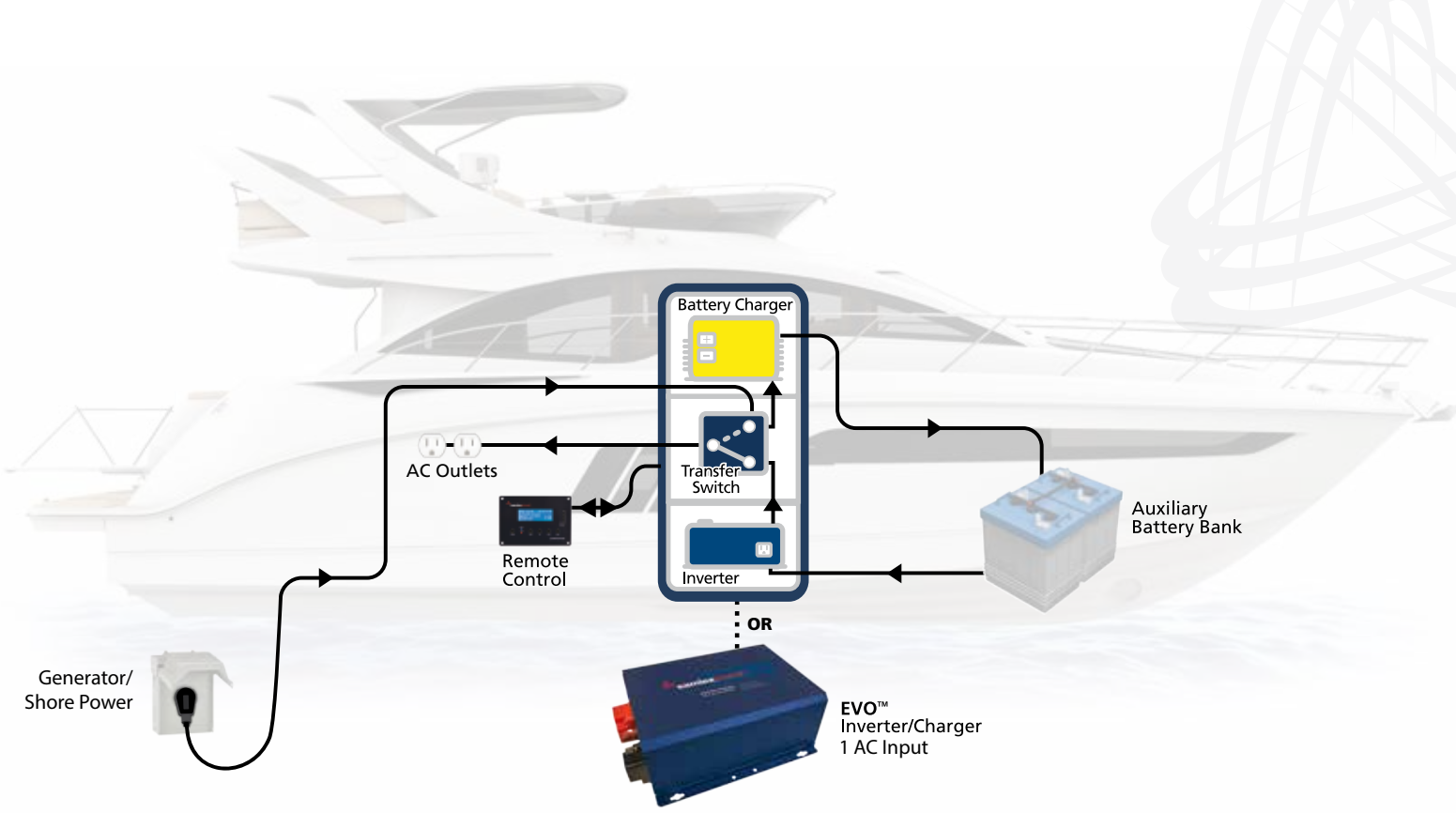
Extended trips on the water make dependable household and backup power a necessity for any size of boat.

### What Our Customers Say...

*"Months of research came down to the Samlex inverter/charger which had the qualifications I was looking for with performance and robustness. The EVO™ has been running straight for over two years, never has been turned off; it works beautifully!"*







MODEL	NOMINAL DC INPUT	NOMINAL AC OUTPUT	OUTPUT POWER	SURGE	BATTERY CHARGER	TRANSFER SWITCH	DIMENSIONS		WEIGHT	
							(MM)	(IN)	(KG)	(LBS)
EVO-1212F	12V	120V	1200W	3600W	60A	30A	324 x 415 x 148	12.76 x 16.34 x 5.83	17.6	38.8
EVO-1212F-HW	12V	120V	1200W	3600W	60A	30A	324 x 415 x 148	12.76 x 16.34 x 5.83	17.6	38.8
EVO-2212	12V	120V	2200W	6600W	100A	40A	325 x 426 x 207	12.79 x 16.77 x 8.15	27	59
EVO-3012	12V	120V	3000W	9000W	130A	70A	325 x 426 x 207	12.79 x 16.77 x 8.15	29	64
EVO-RC	For use with EVO-2212, EVO-3012. 33ft cable.						144 x 114 x 35.5	5.6 x 4.5 x 1.4	0.2	0.4
EVO-RC-PLUS	For use with all EVO™ Inverter/Charger models. 33ft cable.						160 x 114.2 x 35.5	6.3 x 4.5 x 1.4	0.3	0.6
EVO-BCTS	Temperature Sensor									





# Battery Chargers

## SEC UL Series

### Protect Your Battery Investment

Upgrade your converter to a Samlex SEC Smart Charger. Use utility power or a generator to rapidly charge and maintain your batteries.



### Features

- 2 or 3 Stage, rapid and safe charging (selectable)
- 120 or 230 VAC, 50/60 Hz (selectable)
- Switch mode technology for high efficiency, lightweight and quiet operation
- Analog meter display
- For all types of Lead Acid Batteries
- Charge with a battery load – or stand alone
- Short circuit, overload and reverse battery polarity protection

### 2 YEAR LIMITED WARRANTY



### Optional Remote Control

#### 900-RC

- Power ON/OFF
- Monitor charging status from a remote location
- Includes 33' cable



SEC-1215UL

900-RC

MODEL	INPUT VOLTAGE	INPUT FREQUENCY	NOMINAL DC OUTPUT	CHARGING CURRENT	DIMENSIONS		WEIGHT		
					(MM)	(IN)	(KG)	(LBS)	
SEC-1215UL	120 VAC	50 / 60 Hz	12 VDC	15 Amps	216 x 213 x 84	8.5 x 8.4 x 3.3	2.17	4.8	
SEC-1230UL	120 VAC	50 / 60 Hz	12 VDC	30 Amps	274 x 213 x 84	10.8 x 8.4 x 3.3	2.90	6.4	
SEC-1250UL	120 VAC	50 / 60 Hz	12 VDC	50 Amps	331 x 244 x 97	13.03 x 9.61 x 3.82	4.08	9.0	
SEC-1280UL	120 VAC	50 / 60 Hz	12 VDC	80 Amps	380 x 244 x 97	14.96 x 9.61 x 3.82	5.39	11.9	
SEC-2415UL	120 VAC	50 / 60 Hz	24 VDC	15 Amps	274 x 213 x 84	10.8 x 8.4 x 3.3	2.90	6.4	
SEC-2425UL	120 VAC	50 / 60 Hz	24 VDC	25 Amps	331 x 244 x 97	13.03 x 9.61 x 3.82	4.08	9.0	
SEC-2440UL	120 VAC	50 / 60 Hz	24 VDC	40 Amps	380 x 244 x 97	14.96 x 9.61 x 3.82	5.39	11.9	
900-RC	For use with SEC-1250, 1280, 2425, 2440. 33' cable. LED indicators for power, boost/absorption and float stage.								

# Transfer Switch

## STS-30

### Automatically Switch to Utility Power When it's Available

Completely hands-free, a Samlex transfer switch automatically detects utility or generator power, when it's available, and allows a seamless transition from your inverter or battery bank.



STS-30



#### Features

- Has a rated capacity of 30 Amps at 120 VAC and is suitable for a 30 Amp utility power cord and a generator of up to 3.6 KVA capacity
- Can be installed on the line side of the main breaker panel, allowing switching of the entire load or on the load side to only switch dedicated circuits
- DIP Switch select to enable a time delay when transferring to a generator

**2 YEAR LIMITED WARRANTY**

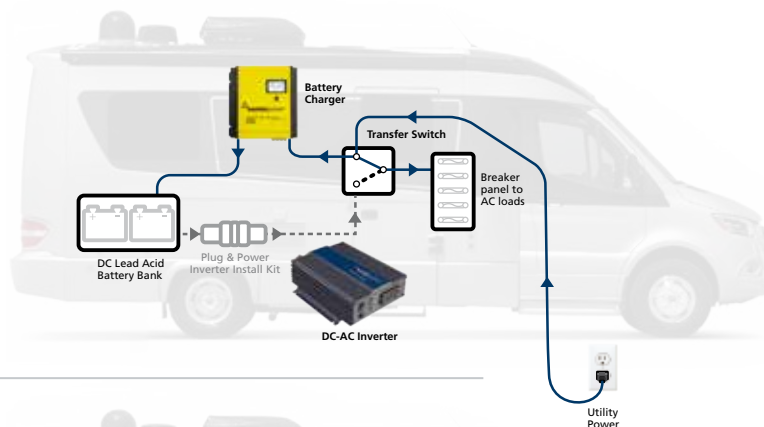
#### PRE-WIRED

For ease of connection when setting up back up power

## How your transfer switch works

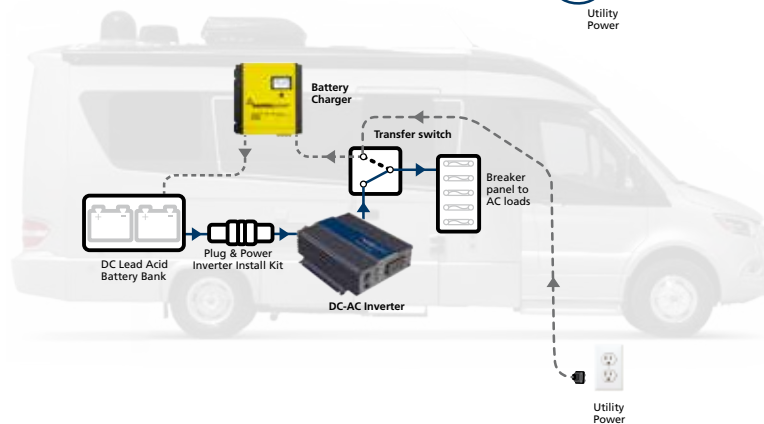
### WHEN UTILITY POWER IS UNAVAILABLE...

The transfer switch detects your battery bank system and transfers inverter output to the breaker panel.



### WHEN UTILITY POWER IS AVAILABLE...

As soon as you plug in, the transfer switch automatically disconnects your inverter system and transfers utility power to feed the breaker panel. Connect a battery charger to the terminal provided on the transfer switch and your batteries will also charge when utility power is available.



# Battery Accessories

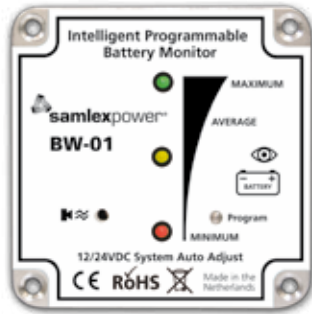
## Battery Monitors

Intelligent, microprocessor based battery voltage monitors. Both models have programmable alarm thresholds and audio alarms at high and low voltage levels.

### BW-01

#### Features

- LED indicators for terminal voltage and battery under-charge status
- High voltage limit during charging, programmable
- Low voltage alarm (with buzzer), programmable
- 3 day timer with auto deactivation at 10.4 volts to prevent excessive drain



BW-01

2 YEAR LIMITED WARRANTY 

### BW-03

#### Features

- Digital display
- Can monitor two batteries
- Very low power consumption/ Power Saving Mode
- Splash resistant top



BW-03

2 YEAR LIMITED WARRANTY 



ACR-160

## Automatic Charge Isolator

### ACR-160

Also known as a Battery Separator, Isolator, or Automatic Charging Relay. It is a voltage dependant switch that separates or parallels starter and auxiliary battery banks in order to: (1) Protect the starter battery from deep discharge, and (2) Recharge the two battery banks.

#### Features

- Easy to install - does not require changing the existing circuit of the alternator
- Potted, waterproof, sealed unit
- Combines battery banks for charging and isolates them when charging has stopped:
  - Provides priority for charging only the starter battery first
  - Protects from excessive discharging of the starter battery
- Over voltage protection

2 YEAR LIMITED WARRANTY 

## Battery Guards

**NEW** **BGW-40**  
- 40 Amps

**NEW** **BGW-60**  
- 60 Amps

**BG-200**  
- 200 Amps



BGW-40

#### Features

- Waterproof (except BG-200)
- Prevents excessive discharge of batteries and helps them last longer
- Can be programmed to disconnect/reconnect at different sets of voltages
- Prevents damage to connected components
- Protects against excessive voltage caused by faulty alternators or chargers

2 YEAR LIMITED WARRANTY   



# Size Your Inverter

DEVICE* Typical examples of rated AC Watts Required to Run Device	Modified Sine Wave $\square$								Pure Sine Wave $\curvearrowright$																		
	SAM-100-12	SAM-250-12	SAM-450-12	SAM-800-12	SAM-1000-12	SAM-1500-12	SAM-2000-12	SAM-3000-12	SAM-1500C-12	SSW-350-12A	SSW-600-12A	NTX-1000-12	NTX-1500-12	NTX-2000-12	NTX-3000-12	PST-120-12	PST-150-12	PST-300-12	PST-600-12	PST-1000F-12	PST-1500-12	PST-2000-12	PST-3000-12	EVO-1212F	EVO-2212	EVO-3012	
Incandescent Bulb (60W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Compact Fluorescent Bulb (17W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Play Station 4† (190W)				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wii Console† (17W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DVD Player (10W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Small Stereo (10W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TV - 32" LCD (150W)			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clock Radio (5W)										•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cell Phone Charger (25W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Electric Blanket with Timer (150W)										•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hair Dryer (1250W)						•	•	•	•																		
3/8 Variable Speed Drill (350W)											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lithium Ion Battery Charger (10W)										•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ceiling Fan (75W)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Microwave (900W)																											
Coffee Maker (1200W)																											
Blender (300W)				•	•	•	•	•	•		•	•	•	•	•												
Toaster (1000W)																											
Vacuum Small Upright (550W)																											
Laptop Computer (100W)			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Desktop Computer with 15" Monitor (350W)																											
Ink Jet Printer - Small (50W)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Laser Printer - Small High Surge (350W)																											
Fridge - 16 Cubic Feet - High Surge (725W)																											
Satellite Receiver (30W)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Iron (1000W)																											
Kettle (1000W)																											
CPAP Machine (300W)																											

\* **NOTE:** This guide is provided for reference only. Every effort has been made to ensure the relevance and accuracy of the information presented. Due to periodic changes and/or variations made by manufacturers, Samlex America Inc. cannot be held responsible for any changes, errors, or omissions as a result of using this reference guide.

† **NOTE:** All references made to brands, trademarks and trade names are only used here for reference and does not imply in any way a sponsorship, affiliation, or endorsement of these products or services by Samlex America Inc. Each brand, trademark or trade name listed here is the property of its respective owner. Samlex America Inc. assumes no credit or liability related to these brands, trademarks or trade names.



# Samlex Power Solutions

Freedom and Flexibility to Go Off-Grid



Authorized Samlex Dealer

