samlexamerica®

Recreational Power Guide

- Solar Charging Kits
- Charge Controllers
- Battery Chargers
- DC-AC Inverters
- Inverter/Chargers

samlexpower®   samlexsolar®   samlexamerica.com

Index

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.

Why use solar? Enjoy the sound of nature rather than a generator. Maintenance free, your RV solar system will pay for itself as it extends the life of your batteries and saves you campsite hook up fees. Easy to install and easy to operate, you don't need to be technically savvy to start using solar, we've got it covered.
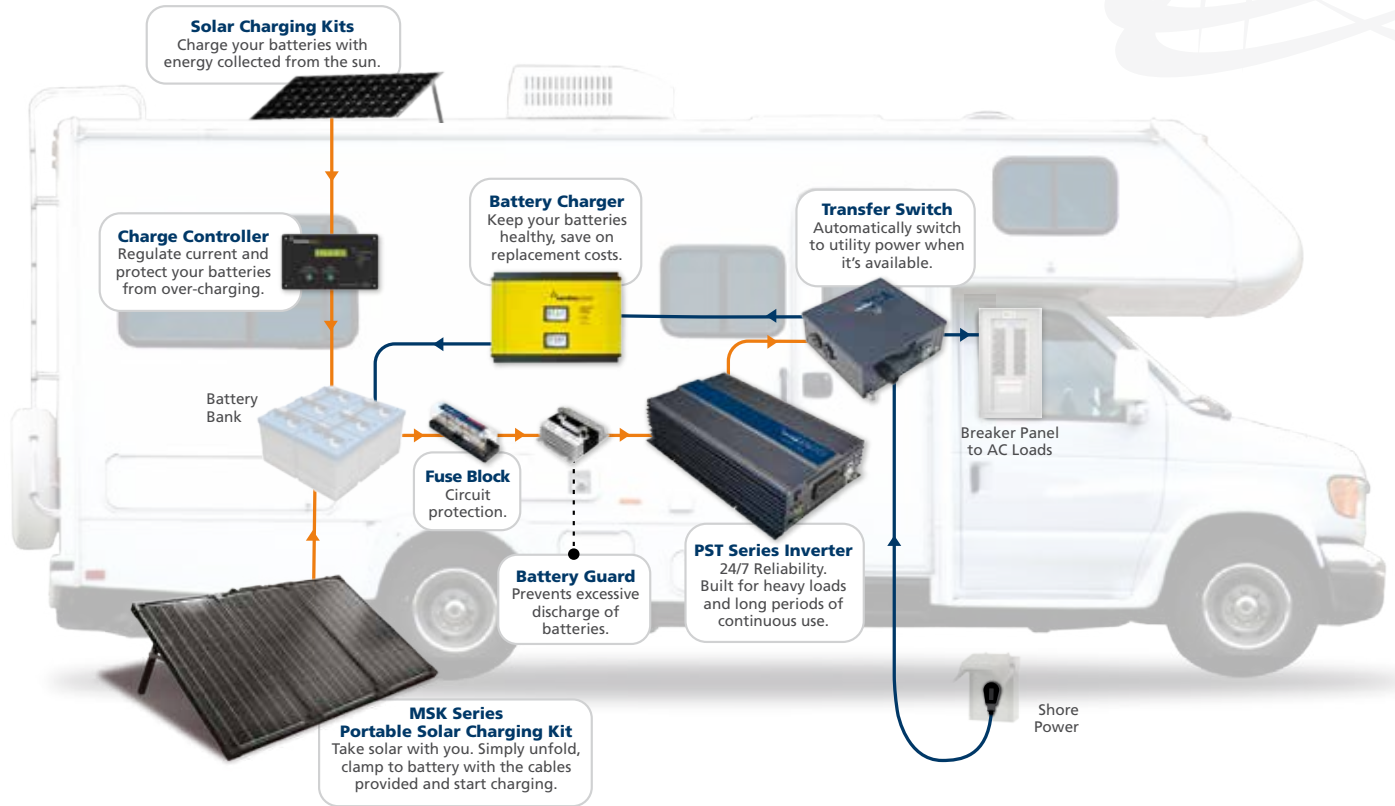
Still have questions about your RV Power Solution? You tell us what you want to power and we'll tell you how. Call our live technical support team at **1-800-561-5885**. Samlex is Per**sun**al Solar made simple.

Innovative Power Conversion Products Since 1991

RV Off-Grid Power Solutions

Solar Charging Kits
Charge your batteries with energy collected from the sun.

Charge Controller
Regulate current and protect your batteries from over-charging.

Battery Charger
Keep your batteries healthy, save on replacement costs.

Transfer Switch
Automatically switch to utility power when it's available.

Battery Bank

Fuse Block
Circuit protection.

Battery Guard
Prevents excessive discharge of batteries.

PST Series Inverter
24/7 Reliability. Built for heavy loads and long periods of continuous use.

Breaker Panel to AC Loads

MSK Series Portable Solar Charging Kit
Take solar with you. Simply unfold, clamp to battery with the cables provided and start charging.

Shore Power

Your RV Lifestyle	Solar Power	You Can Power...					
COMFORT	**100W**	Light	Battery	Water Pump			
	150W	Light	Battery	Water Pump	Fan		
ADVENTURE	**200W**	Light	Battery	Water Pump	Fan	Tablet	Laptop
	250W	Light	Battery	Water Pump	Fan	Tablet	Laptop / Television
	300W	The above, PLUS...				Kitchen Appliances	Entertainment Unit
DRY CAMPING	**400W**	The above, PLUS...				Vacuum	Small Fridge
	450W	The above, PLUS...more time!					
	550W	The above, PLUS...even more time!					

* Results may vary based on location and available sunlight.

ALL-IN-ONE Solar Charging Kits

SRV Series Kits

Every SRV kit includes an industry leading 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

Talk to your distributor / dealer about install options or do it yourself with step by step videos.

Available in 100 and 150 Watts

| MODEL | SOLAR PANEL | WEIGHT | | DIMENSIONS | | CHARGING AMPS |
		(KG)	(LBS)	(MM)	(INCH)	
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 35.3	21.73 x 47.25 x 1.39	6.07 Amps

What's in Your SRV Kit

100W Panel

150W 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.

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 a 25 year power warranty.***

Every Samlex SRV ALL-IN-ONE Solar Charging Kit includes a flush mount 30A charge controller designed to quick connect to the cables attached on the back of your solar panel. One 30A controller can manage up to 550 Watts of solar power, so expanding your system is easy – just add panels as needed. **Battery equalization restores battery capacity, revives efficiency and extends battery life.** The digital display shows charging stage, voltage, current, and battery Amp Hours. Samlex offers a 5 year warranty.

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

❶ 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.
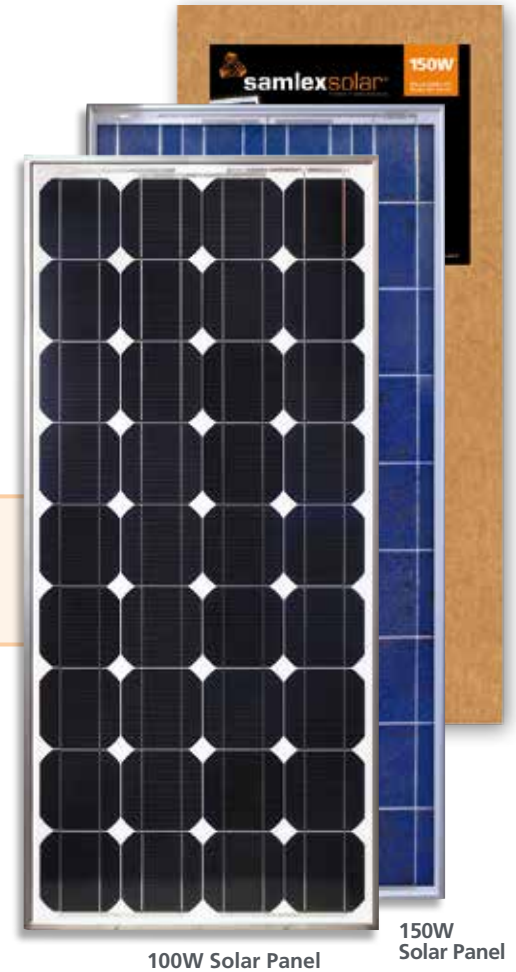
ALSO USE AS AN EXPANSION KIT
Add branch connectors, SBC-2 (sold separately) to connect panels in parallel.

Available in 100 and 150 Watts

MODEL	SOLAR PANEL	WEIGHT		DIMENSIONS		CHARGING AMPS
		(KG)	(LBS)	(MM)	(INCH)	
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

100W Solar Panel

150W Solar Panel

❷ 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

SMC-20

MSK-10A

SCC-1208L

MODEL	WEIGHT		DIMENSIONS		CHARGING POWER
	(KG)	(LBS)	(MM)	(INCH)	
SCC-30AB	0.4	0.88	190 x 108 x 34	7.5 x 4.25 x 1.35	30 Amps
SMC-20	0.45	0.76	187 x 96 x 45	7.36 x 3.75 x 1.77	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
MSK-TS	–	–	3 Meters	10 Feet	–

Charge Controllers Features

SCC-30AB

- 30 Amp Flush Mount Charge Controller
- Manages up 550W of solar power
- 8 charge settings for most battery types
- Included in every SRV Solar Charging Kit

5 YEAR LIMITED WARRANTY

SMC-20

- 20 Amp Charge Controller
- Manages up to 330W of solar power
- Automatic detection of 12V/24V
- Load disconnection and automatic load reconnection

5 YEAR LIMITED WARRANTY

MSK-10A

- 10 Amp Charge Controller
- LED display with 3 stages of intelligent charging
- Backflow current protection for your panels
- Optional temperature sensor

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

❸ Solar Accessories

Branch Connectors

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

SBC-2

Additional Solar Panel   Additional Solar Panel   Existing Solar Panel

Charge Controller

SBC-2   SBC-2
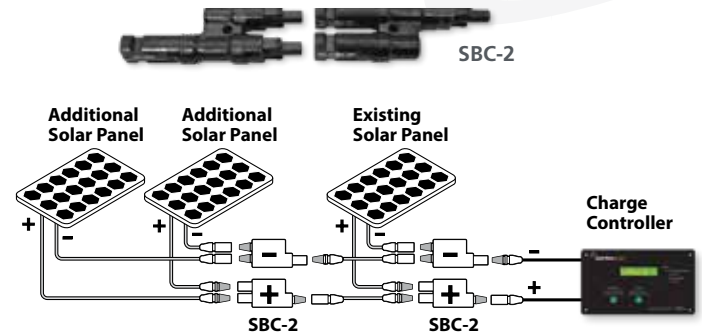
Adjustable Panel Tilt Mount

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

ADJ-28

Connecting Wires (20')

SCW-20-2

Mounting Brackets & Hardware

SM5-KIT

Multi-contact Connectors

MC4-2

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 Back-up 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 Lead Acid batteries (not included)
- Trifold panel for easy storage and transport

10 YEAR POWER WARRANTY

How Much Power Can I Generate Per Day?

MSK-90
Up to **35** Amp Hours*

MSK-135
Up to **53** Amp Hours*

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

MODEL	WATTS	WEIGHT* (KG)	(LBS)	MSK DIMENSIONS OPEN (MM)	(INCH)	MSK DIMENSIONS FOLDED (MM)	(INCH)	CHARGING AMPS
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

Trifold Solar Panel

2

Protective Carrying Case

3

MSK-10A Built-in Charge Controller

4   **5**

Pre-wired Battery Clamps   **2-pin Adapter**

Optional:

MSK-XLR 2-pin XLR Adapter

MSK-EXT Extension Cable

Battery Maintainers

Suncharger Series

Perfect for maintaining the battery in your RV, Car, Boat, Motorcycle or ATV and for saving on replacement costs.

SC-10

SC-05
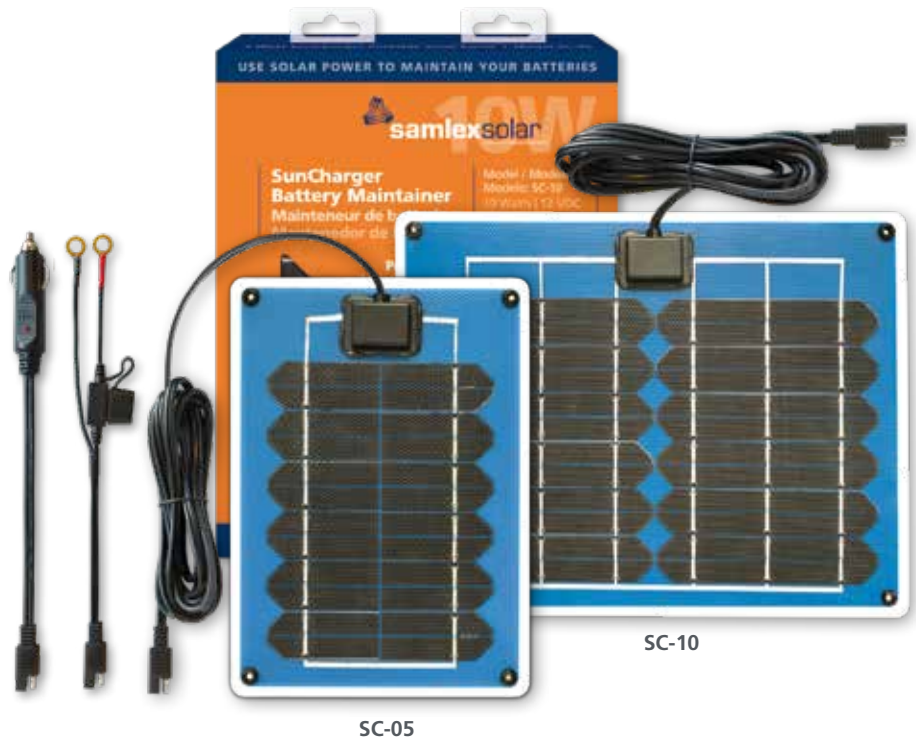
Features

- 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	4.8W	0.55	1.2	0.30 Amps
SC-10	9.5W	0.90	2.0	0.56 Amps

* May not be exactly as shown.

Pure Sine Wave Inverters ⌁

PST Series

24/7 Reliability

Built for heavy loads and long periods of continuous use, giving you peace of mind when it comes to safe and reliable AC Power.

PST-600-12

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 back up
- 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 and over temperature
- For use with PST-600-12, PST-1000-12 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 (MM)	DIMENSIONS (IN)	WEIGHT (KG)	WEIGHT (LBS)	INVERTER INSTALLATION	OUTLETS
PST-120-12	12V	120 VAC	120W	120W	189 x 105 x 30.5	7.44 x 4.13 x 1.2	0.453	1.0	-	1
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-1000-12	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-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 or OFF with ignition start or any other Remote ON/OFF switch.

Pure Sine Wave Inverters ⌁

NTX Series

NEW

Compact Size & Lightweight

The new NTX Series Pure Sine Wave Inverters are FCC certified to ensure no electrical interference when operating near sensitive equipment. This series is compact and lightweight and has a single variable speed temperature and load-controlled fan for quiet operation.

NTX-2000-12

2 YEAR LIMITED WARRANTY

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
- 10' cable with RJ45 Connector
- Informative LDC display indicates Input Voltage, Output Voltage, Output power (bar graph), Input and Output Fault.
- Power save mode

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

Reliable AC Power at an Affordable Price

Ideal for powering sensitive loads such as televisions, cordless tool chargers, microwaves, automatic coffee makers and office equipment. Size your load and select your inverter with our Inverter Sizing Table, page 22.

SSW-1000-12A

Features

- Compact and lightweight
- High surge: 2X continuous power
- True Sine Wave Power - ideal for sensitive loads
- Soft start and cool surface technology
- 300 and 600 Watt models have USB charging port
- 1000, 1500, 2000 Watt models have two GFCI protected outlets
- Protections: Thermal, battery overload, short circuit and earth fault
- Safety certified to UL standards

SSW-R1-12B Remote Control

Included with every 1000, 1500 and 2000W model!

- Power ON/OFF
- 10' cable with RJ45 connector
- Display indicates: Input Voltage, Output Power, Input Fault, Output Fault
- 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)		
SSW-350-12A	12V	115 VAC	350W	700W	200 x 155 x 57	7.87 x 6.10 x 2.24	0.700	1.50	Battery clamps	2
SSW-600-12A	12V	115 VAC	600W	1200W	230 x 155 x 57	9.06 x 6.10 x 2.24	0.900	2.00	Battery clamps	2
SSW-1000-12A	12V	115 VAC	1000W	2000W	265 x 222 x 88	10.43 x 8.74 x 3.46	2.600	5.70	DC-2000-KIT	2
SSW-1500-12A	12V	115 VAC	1500W	3000W	310 x 222 x 88	12.2 x 8.74 x 3.46	3.200	7.10	DC-2500-KIT	2
SSW-2000-12A	12V	115 VAC	2000W	4000W	310 x 222 x 88	12.2 x 8.74 x 3.46	3.800	8.40	DC-2500-KIT	2
SSW-R1-12B	Included with 1000, 1500 and 2000W models. Comes with 10' of wire.				102 x 82 x 35	4.0 x 3.2 x 1.4	0.056	0.12	–	–

Modified Sine Wave Inverters ⊥

SAM Series

Durable Construction

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 Table, page 22.

SAM-100-12

SAM-250-12

SAM-800-12

Features

- Compact and lightweight
- 100 to 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
- Safety certified to UL standards

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

SAM-RC

2 YEAR LIMITED WARRANTY ETL LISTED

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	8.6 x 7.0 x 2.4	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	13.58 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	5.30	11.50	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

(Based up to 3% voltage drop for 10 ft cable run, and 5% voltage drop for 15 ft cable run from Battery to Inverter, and current equal to Ampere rating of the Fuse)

Model No. of Inverter Installation Kit	PST-600-12	PST-1000-12	PST-1000F-12	PST-1500-12	PST-2000-12	PST-3000-12	SSW-600-12A	SSW-1000-12A	SSW-1500-12A	SSW-2000-12A	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	EVO-2212
DC-1000-KIT Cable: AWG#4 | 2 x 10 ft Fuse: 100A	•						•								•					
DC-2000-KIT Cable: AWG#2 | 2 x 10 ft Fuse: 200A		•	•					•			•					•				
DC-2500-KIT Cable: AWG#2/0 | 2 x 10 ft Fuse: 300A				•	•				•	•		•	•				•	•		
DC-2500-KIT-XL Cable: AWG#2/0 | 2 x 15 ft Fuse: 300A				•	•				•	•		•	•				•	•		
DC-3500-KIT Cable: AWG#4/0 | 2 x 10 ft Fuse: 400A						•								•					•	•

DC-KIT-3500

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

Visit our website for full line of products.
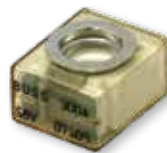
Fuses & Circuit Protection

DC-FA-100

CFB2-400

MRBF-300

JLLN-400

DC-FB-2

FUSE ASSEMBLIES AND FUSE BLOCK

DC-FA-100	100A Fuse assembly*
DC-FA-200	200A Fuse assembly*
DC-FA-300	300A Fuse assembly*
CFB2-400	400A Fuse block with fuse

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

INDIVIDUAL REPLACEMENT FUSES

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

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

Inverter, Battery Charger and Transfer Switch – All in one device. This robust power system automatically switches between shore power, generator and your batteries as different power sources become available.

2 AC Input Features

- Pure Sine Wave Inverter
- Configurable Multi-Stage high current Battery Charger with Equalization
- <16ms Transfer from Grid/Generator to Inverter
- Wide Operating Temperature Range
- Programmable Power Save Mode
- Temperature Controlled Cooling Fans
- Conformally Coated Circuit Board

Two Separate AC Inputs for Grid & Generator

Connect Grid and Generator simultaneously, no need to reconfigure system as power availability changes. Priority is given to Grid. Both AC input ranges are fully programmable.

Adaptive or Timed Battery Charger

Choose between a timed or an adaptive charging algorithm. The adaptive algorithm monitors the battery condition to set the remaining time in the bulk stage. In order to reduce excess charging time and extend the life of lead acid batteries, use this setting. Our timed algorithm allows for a timed second stage. For lithium "drop in replacement" battery banks, a timed second stage is the optimal choice.

Synchronized Transfer at Zero Crossing

Zero transfer time when switching from Inverter to Grid. When grid comes on, the inverter synchronizes with the wave form and then transfers instantly at zero crossing without any interruption to the load.

Input for Solar Charge Controller

Connect a solar charge controller directly to the EVO™ through the Battery Charger External DC Input (Solar Input). When renewable energy is available on this external DC input, the EVO™ will reduce the value of battery charging power sourced from its internal charger by the amount available on this input.

High Surge Inverter with Active Power Boost

In addition to 3X surge on start up, loads can exceed the continuous power output by the Power Boost Allowances without triggering an overload fault. Get 150% for 5 seconds or 120% for 5 minutes!
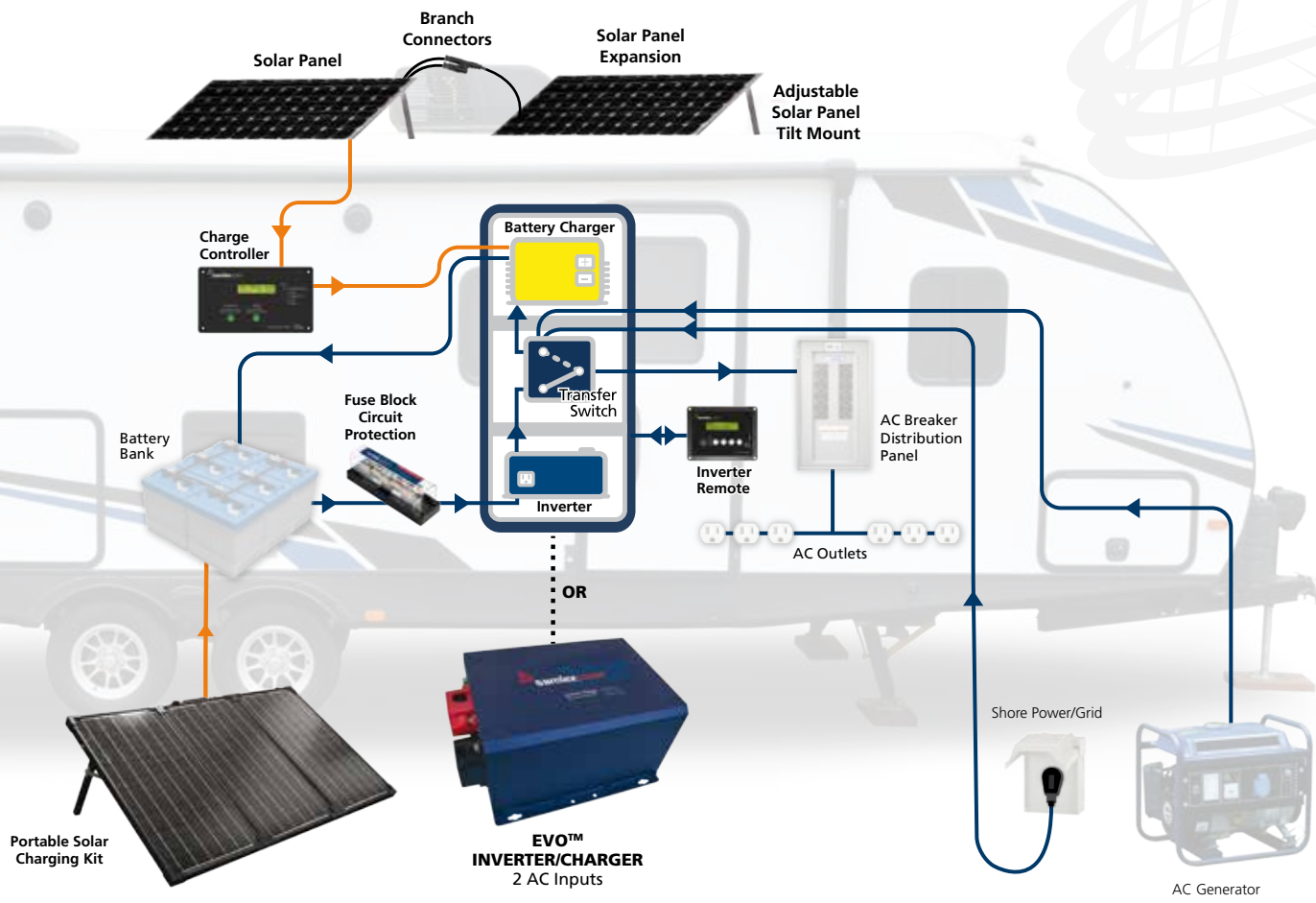
Online Mode

Use to prioritize Batteries/Inverter over the grid. Choose to operate primarily on solar power even when grid is available. In Online Mode, grid is only used as back-up power when batteries necessitate charge.

Bullet Proof Intelligence

9 physical points of protection monitoring are scanned up to 10,000 times per second to detect adverse internal and external conditions. When detected, the unit will initiate a healthy shutdown before any damage can be done, making the EVO™ practically indestructible.

MODEL	NOMINAL DC INPUT	NOMINAL AC OUTPUT	OUTPUT POWER	SURGE	BATTERY CHARGER	TRANSFER SWITCH	DIMENSIONS (MM)	DIMENSIONS (IN)	WEIGHT (KG)	WEIGHT (LBS)
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

Branch Connectors

Solar Panel

Solar Panel Expansion

Adjustable Solar Panel Tilt Mount

Charge Controller

Battery Charger

Transfer Switch

Fuse Block Circuit Protection

Battery Bank

Inverter Remote

AC Breaker Distribution Panel

Inverter

AC Outlets

OR

Portable Solar Charging Kit

EVO™ INVERTER/CHARGER
2 AC Inputs

Shore Power/Grid

AC Generator

3 YEAR LIMITED WARRANTY

Remote Control with Removable SD Card for Data Logging

The **EVO-RC** remote control (sold separately) can accept a 32GB SD card to capture data. Log historic power consumption, inverter functionality, battery charging activity, faults and the conditions leading up to them. Use the remote to program parameters and view performance details in real time. 33 ft RJ-45 data cable included.

EVO-RC

Inverter/Chargers

Samlex Evolution™ F Series

Pure Sine Wave Inverter/Charger with 6 programmable charging profiles – 2, 3 and
4 stages with Equalization. For use with Lead Acid or Lithium Batteries.

1 AC Input Features

- User configurable Timed or Adaptive algorithm to charge a wide range of battery types
- Zero transfer time switching from inverter to grid, synchronized transfer at zero crossing
- 3X Surge power with Power Boost
- Wide Operating Temperature Range -20 to 60ºC / -4 to 140ºF
- GFCI & Hardwired models available

EVO-1212F

There is no need to upsize to a larger inverter/charger just to handle short duration heavy surge loads, resulting in reduced costs.
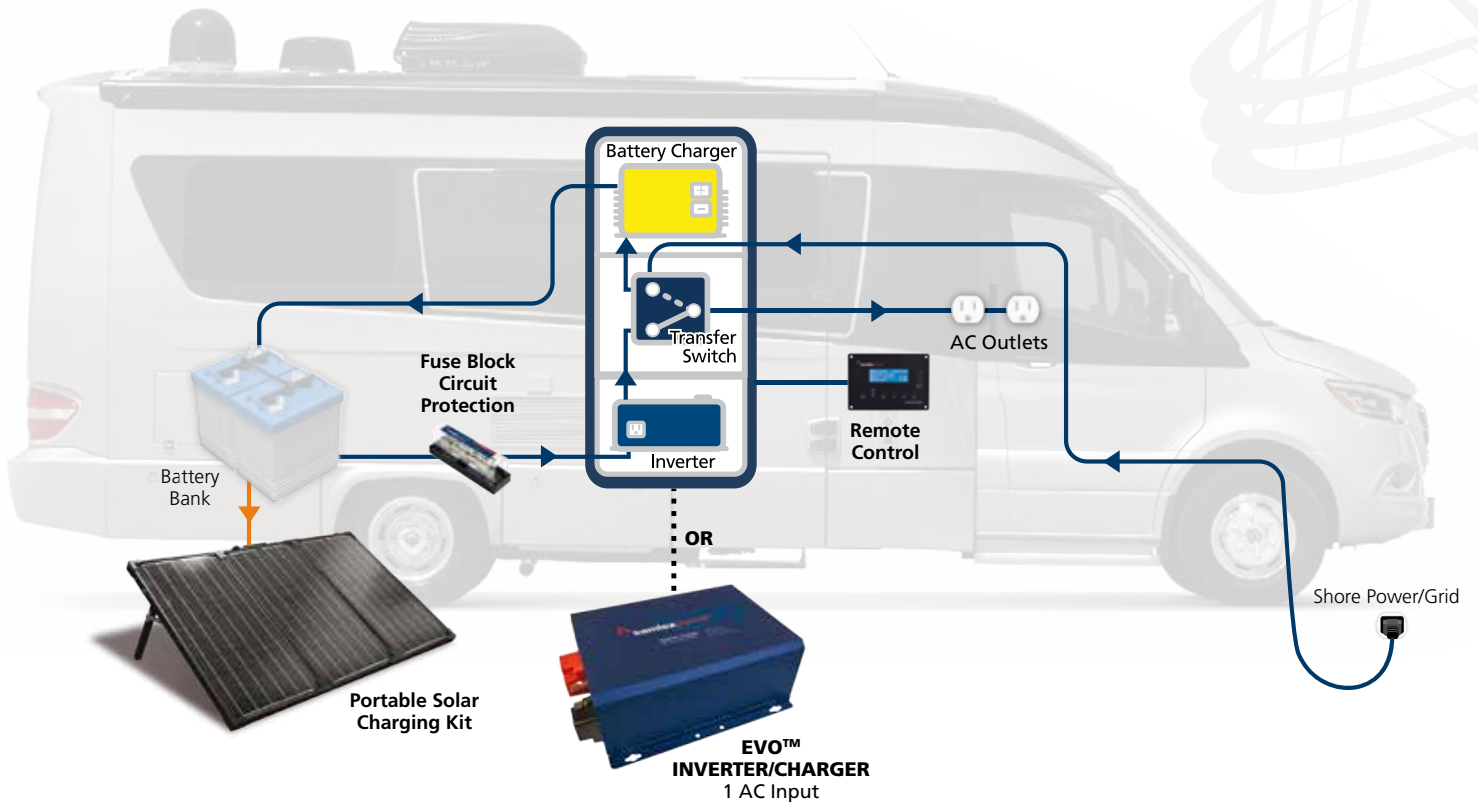
3 YEAR LIMITED WARRANTY

EVO-1212F-HW

Battery Charger

Transfer Switch

AC Outlets

Fuse Block Circuit Protection

Remote Control

Inverter

Battery Bank

OR

Portable Solar Charging Kit

Shore Power/Grid

EVO™ INVERTER/CHARGER
1 AC Input

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-RC-PLUS	For use with EVO-1212F and EVO1212F-HW. 33ft cable.						144 x 114 x 35.5	5.6 x 4.5 x 1.4	0.2	0.4

EVO-RC-PLUS

Remote Control with Removable SD Card for Data Logging

The **EVO-RC-PLUS** remote control can accept up to 32GB SD card to capture data. Advanced features for programming various parameters and modes of operation. Robust metal enclosure. Comes with 10M / 33ft RJ-45 data cable.

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.

SEC-1215UL

Features

- 2 or 3 Stage, Rapid and Safe Charging (selectable)
- 120 or 230 VAC, 50/60 Hz (selectable)
- Analog meter display
- For all types of Lead Acid Batteries
- Charge with a battery load – or stand alone
- Safety Certified Intertek ETL Listed to stringent UL standards

2 YEAR LIMITED WARRANTY

900-RC

Optional Remote Control

900-RC

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

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.
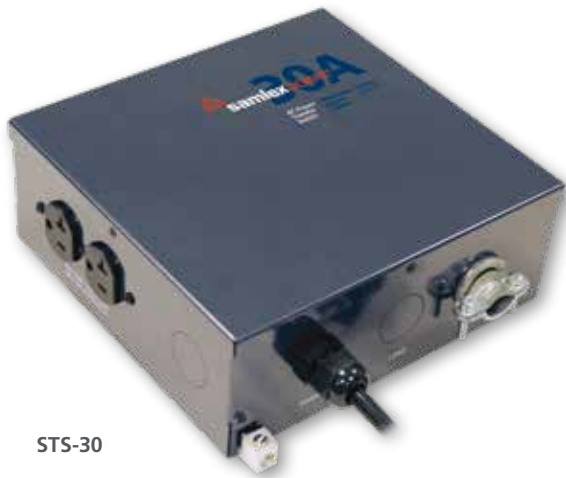
STS-30

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
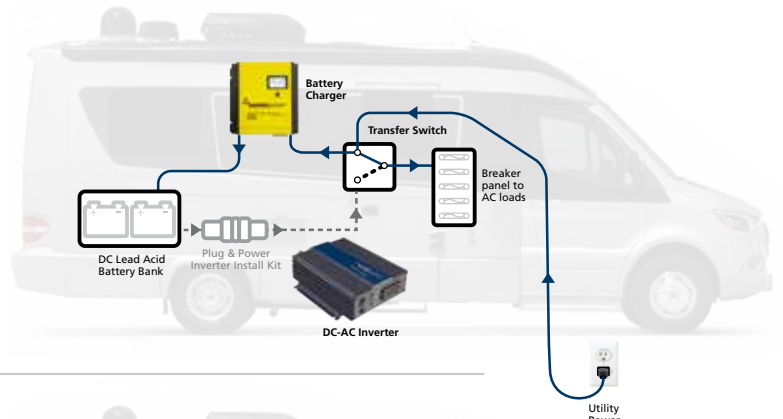
2 YEAR LIMITED WARRANTY

PRE-WIRED
For ease of connection for 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.

Battery Charger
Transfer Switch
Breaker panel to AC loads
DC Lead Acid Battery Bank
Plug & Power Inverter Install Kit
DC-AC Inverter
Utility Power

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 Charger
Transfer switch
Breaker panel to AC loads
DC Lead Acid Battery Bank
Plug & Power Inverter Install Kit
DC-AC Inverter
Utility Power
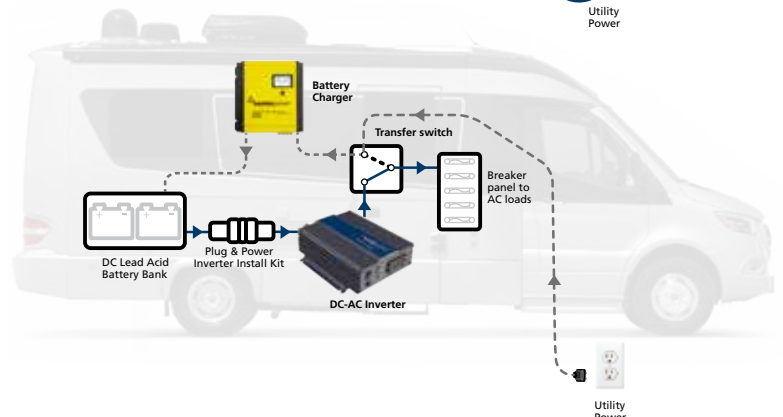
Battery Accessories

ACR-160

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

BW-01

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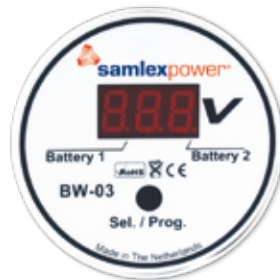- 3 day timer with auto deactivation at 10.4 volts to prevent excessive drain

2 YEAR LIMITED WARRANTY $C\epsilon$

BW-03

Features

BW-03

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

2 YEAR LIMITED WARRANTY $C\epsilon$

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 $C\epsilon$

Battery Guards

BG-60

BG-40
- 40 Amps

BG-60
- 60 Amps

BG-200
- 200 Amps

Features

- Prevents excessive discharge of batteries.
- Longer battery life
- 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
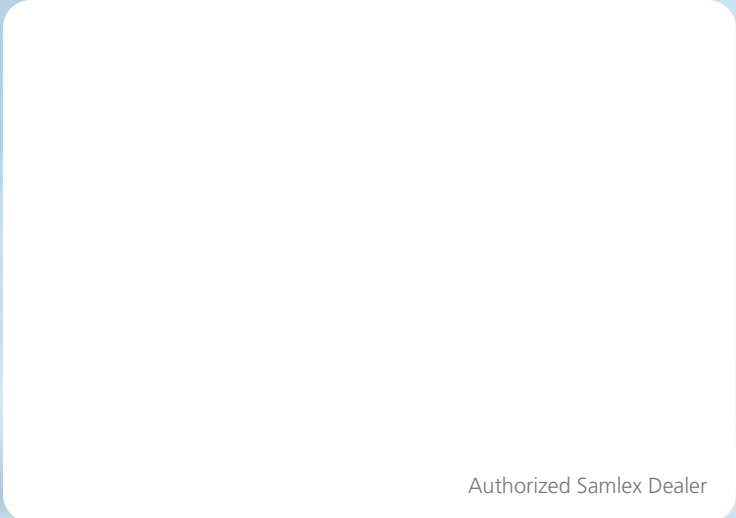
2 YEAR LIMITED WARRANTY

Size Your Inverter

DEVICE* Typical examples of rated AC Watts Required to Run Device	Modified Sine Wave								Pure Sine Wave																			
	SAM-100-12	SAM-250-12	SAM-450-12	SAM-800-12	SAM-1000-12	SAM-1500-12	SAM-2000-12	SAM-3000-12	SSW-350-12A	SSW-600-12A	SSW-1000-12A	SSW-1500-12A	SSW-2000-12A	NTX-1000-12	NTX-1500-12	NTX-2000-12	NTX-3000-12	PST-120-12	PST-300-12	PST-600-12	PST-1000-12	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.

Authorized Samlex Dealer

samlexamerica.com