



**samlex**america®

Power Conversion Products  
2018



**samlex**america®

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Engineers and support personnel are available to answer your technical inquiries.

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Quality Control, Industry Proven  
Power Conversion Products, Over 200  
Production Models Available.



## Online Tools

FAQs, Manuals, Spec Sheets, Detailed  
Product Info, Videos.

# Table of Contents

|   |    |
|---|----|
| Inverter/Chargers   Pure Sine Wave                  |    |
| EVO™ Series.....                                    | 4  |
| DC-AC Inverters   Pure Sine Wave                    |    |
| PST Series .....                                    | 8  |
| PST E Series (230V) .....                           | 10 |
| PSR Rack Mount Series.....                          | 11 |
| SSW Series.....                                     | 12 |
| DC-AC Inverters   Modified Sine Wave                |    |
| PSE Series .....                                    | 13 |
| SAM Series .....                                    | 14 |
| Inverter/Chargers   Modified Sine Wave              |    |
| SAM Series .....                                    | 15 |
| Inverter Installation Kits & Accessories ....       | 16 |
| Transfer Switch .....                               | 18 |
| Battery Chargers .....                              | 19 |
| Solar Panels & Accessories.....                     | 20 |
| Solar Charge Controllers .....                      | 23 |
| Battery Maintainers.....                            | 26 |
| Battery Accessories .....                           | 27 |
| DC-DC Step-Down Converters .....                    | 28 |
| DC-DC Isolated Converters .....                     | 29 |
| DC-DC Step-Up Converters.....                       | 30 |
| Power Supplies & Rackplates.....                    | 31 |
| Radio Cabinets &<br>Power Supply Combinations ..... | 34 |

## Customization

Samlex offers OEM and private label opportunities  
for specialty components and finished power  
conversion products.

## Warranty

Samlex offers a minimum 2 year limited warranty.  
Specific warranty terms and warranty period  
varies by product. Warranty is limited outside of  
Continental USA and Canada.

**[www.samlexamerica.com](http://www.samlexamerica.com)**

# EVO™ SERIES

## Pure Sine Wave Inverter/Chargers



EVO-3012

Pure sine wave inverter, adaptive battery charger, transfer relay – All in ONE unit. Using state-of-the-art technology, the Samlex Evolution™ Series inverter/charger operates at 165 million instructions per second with 9 points of physical protection monitoring (being scanned up to 10,000 times per second) to detect fault conditions and protect itself in adverse environments.

### Design Features

- Two separate AC inputs for Grid (priority input) and Generator
- DC Input for solar Charge Controller
- 3 or 4 stage selectable Battery Charging with Equalization option
- 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
- Conformally coated circuit boards
- Wide Operating Temperature Range -20 to 60°C / -4 to 140°F

### Applications

|                           |                             |
|---------------------------|-----------------------------|
| Boats                     | Alternative energy/Off-grid |
| Recreational vehicles     | Rural electrification       |
| Trucks/Specialty vehicles | Emergency backup power      |

**Compliance** ETL listed: Conforms to ANSI / UL STD. 1741, 458 (with Marine Supplement), Certified to CAN / CSA STD. C22.2 No. 107.1-01, Certified to FCC Part 15(B), Class A. CE on 230V models.

2 YEAR LIMITED WARRANTY



EVO-RC

### EVO™ Remote Control

(sold separately)

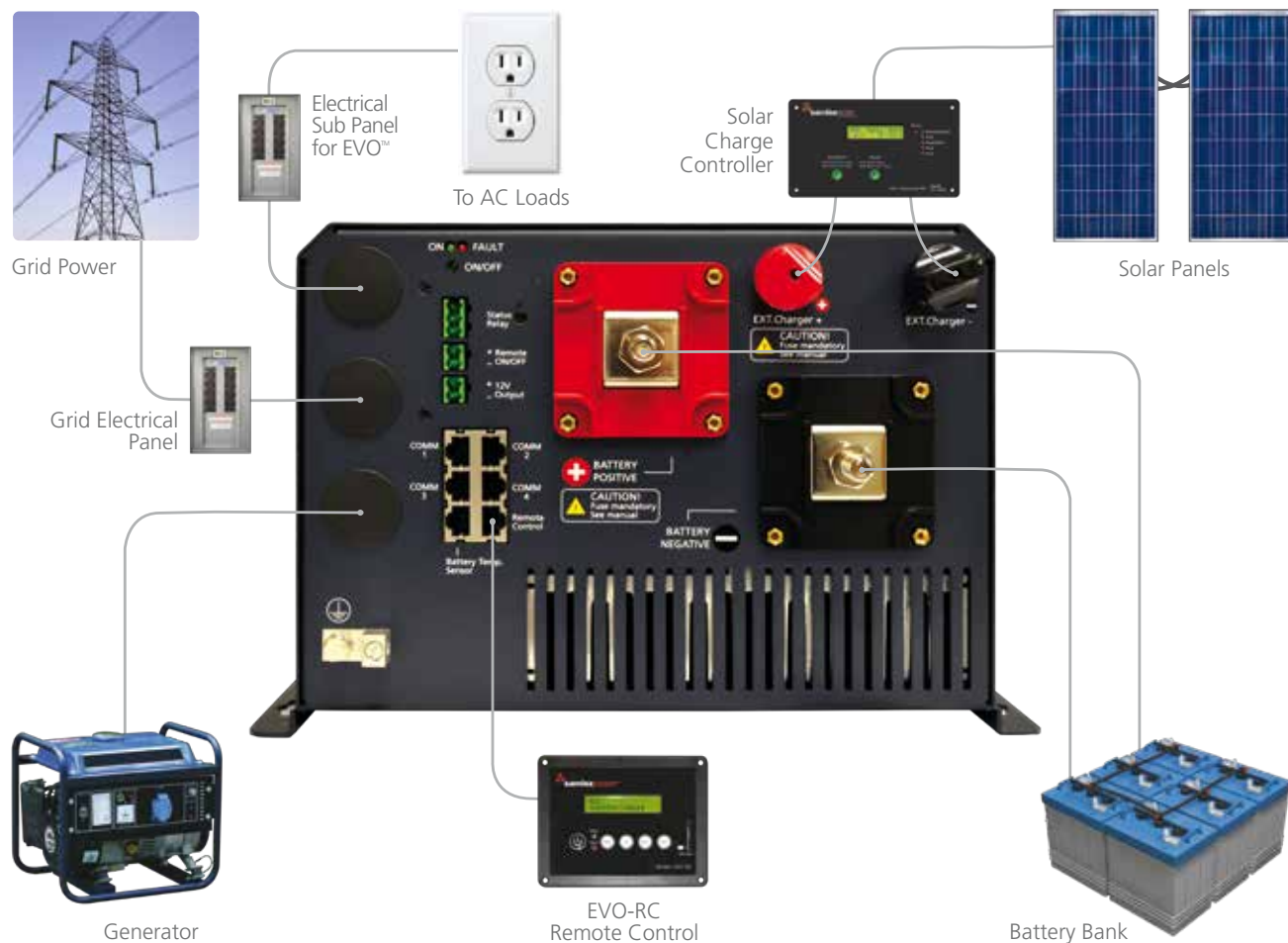
Use to program inverter and battery charging parameters, and view real-time performance activity on the 32 character LCD screen.

### Data Logging

The remote's SD Card slot can manage a 16GB removable SD card. Data log: historic power consumption, inverter functionality, battery charging activity, faults and all of the conditions leading up to them. Analyze trends for more efficient use of off-grid resources.







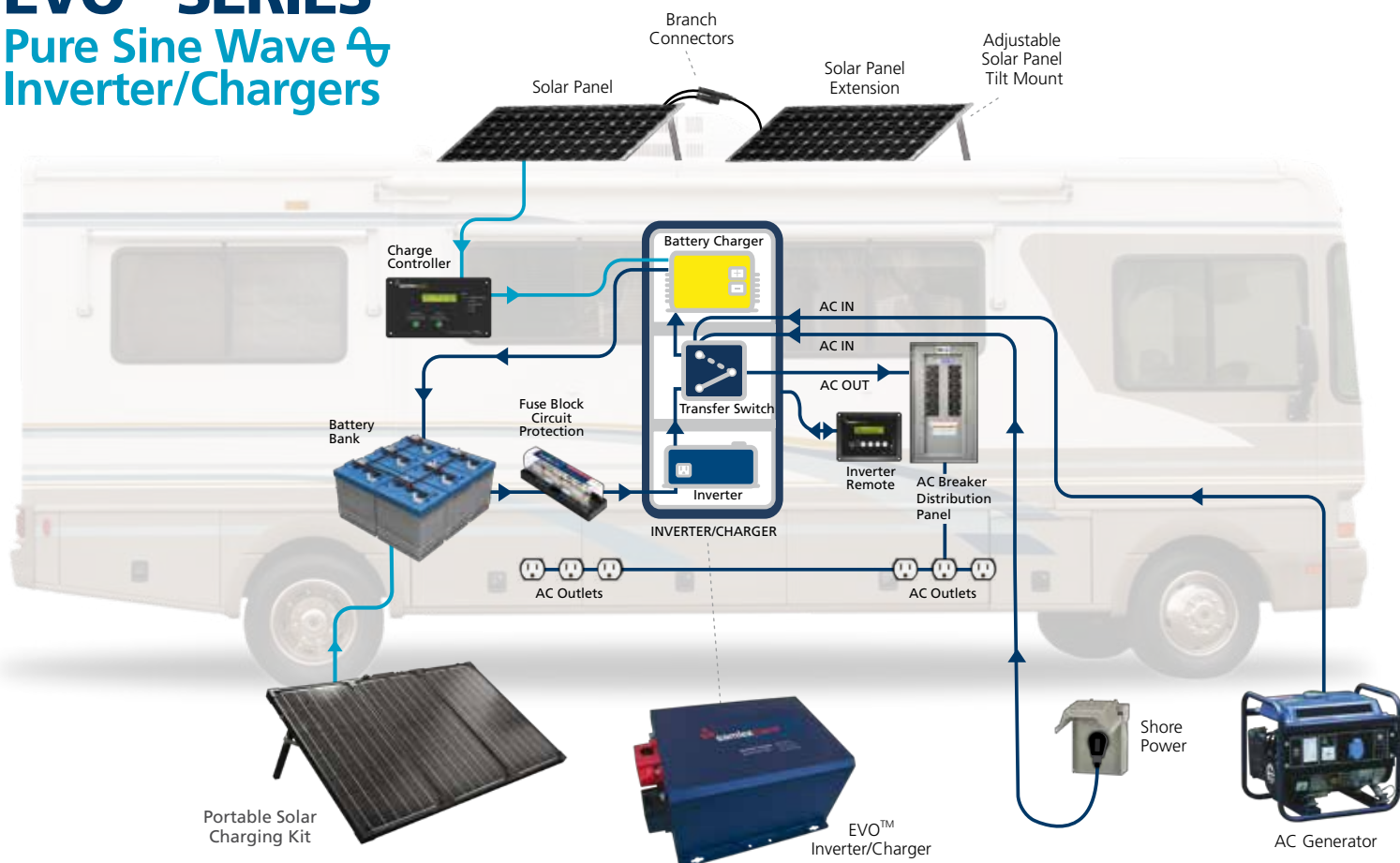
## SPECIFICATIONS

| Model     | Input (VDC)             | Output (VAC) | Output Power (W) | Battery Charger (A) | Transfer Relay (A) | Weight (lbs) | Dimensions (inches)  |
|-----------|-------------------------|--------------|------------------|---------------------|--------------------|--------------|----------------------|
| EVO-2212  | 12                      | 120          | 2200             | 100                 | 40                 | 59           | 12.79 x 16.77 x 8.15 |
| EVO-3012  | 12                      | 120          | 3000             | 130                 | 70                 | 64           | 12.79 x 16.77 x 8.15 |
| EVO-2224  | 24                      | 120          | 2200             | 70                  | 40                 | 57           | 12.79 x 16.77 x 8.15 |
| EVO-4024  | 24                      | 120          | 4000             | 110                 | 70                 | 64           | 12.79 x 16.77 x 8.15 |
| EVO-2212E | 12                      | 230          | 2200             | 100                 | 40                 | 59           | 12.79 x 16.77 x 8.15 |
| EVO-3012E | 12                      | 230          | 3000             | 130                 | 40                 | 64           | 12.79 x 16.77 x 8.15 |
| EVO-2224E | 24                      | 230          | 2200             | 70                  | 40                 | 57           | 12.79 x 16.77 x 8.15 |
| EVO-4024E | 24                      | 230          | 4000             | 110                 | 40                 | 64           | 12.79 x 16.77 x 8.15 |
| EVO-RC    | Optional Remote Control |              |                  |                     |                    | 0.4          | 5.6 x 4.5 x 1.4      |



# EVO™ SERIES

## Pure Sine Wave Inverter/Chargers



### How an Inverter/Charger works...

The primary function of an inverter/charger is to charge a bank of batteries and convert power from the batteries into usable AC power (the same type you receive from the wall at home).

The EVO™ inverter/charger can accept input from the grid, a generator or a solar charge controller to charge a bank of batteries; all of which can be connected at the same time. The unit will automatically switch between power sources as they become available - ensuring the batteries are charging efficiently and the AC loads are being powered without delay.



REMOTE LOCATIONS



COMMERCIAL VEHICLES



RV/MARINE



BACKUP POWER



# EVO™ F SERIES

## Pure Sine Wave Inverter/Chargers



EVO-1212F

Samlex EVO-1212F is a 1200 watt pure sine wave inverter with a 60 Amp programmable charger. There is no need to upsize to a larger inverter/charger just to handle short duration heavy surge loads, resulting in reduced costs.

### Design 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
- GFCI & Hardwired models available
- Wide Operating Temperature Range -20 to 60°C / -4 to 140°F

### Applications

|                           |                        |
|---------------------------|------------------------|
| Boats                     | Off-grid               |
| Recreational vehicles     | Cabins                 |
| Trucks/Specialty vehicles | Rural electrification  |
| Alternative energy        | Emergency backup power |

**Compliance** Intertek-ETL listed: Certified to CAN / CSA STD. C22.2 No. 107.1-01 ; Conforms to ANSI / UL STD. 458. Certified to FCC Part 15(B), Class A.

2 YEAR LIMITED WARRANTY



### SPECIFICATIONS

| Model         | Input (VDC)             | Output (VAC) | Output Power (W) | Battery Charger (A) | Transfer Relay (A) | Weight (lbs) | Dimensions (inches)  |
|---------------|-------------------------|--------------|------------------|---------------------|--------------------|--------------|----------------------|
| EVO-1212F     | 12                      | 120          | 1200             | 60                  | 30                 | 38.8         | 12.76 x 16.34 x 5.83 |
| EVO-1212F-HW* | 12                      | 120          | 1200             | 60                  | 30                 | 38.8         | 12.76 x 16.34 x 5.83 |
| EVO-1224F     | 24                      | 120          | 1200             | 40                  | 30                 | 38.8         | 12.76 x 16.34 x 5.83 |
| EVO-1224F-HW* | 24                      | 120          | 1200             | 40                  | 30                 | 38.8         | 12.76 x 16.34 x 5.83 |
| EVO-RC-PLUS   | Optional Remote Control |              |                  |                     |                    | 0.6          | 6.3 x 4.5 x 1.4      |

\* Hard-wireable



EVO-RC-PLUS

### EVO-RC-PLUS Remote Control

(sold separately)

- Advanced features for programming various parameters and modes of operation
- 4 rows of 20 character alpha numeric LCD display for messaging
- Robust metal enclosure
- Up to 16 GB SD card slot for data logging
- Comes with 10M/33ft RJ-45 data cable



# PST SERIES

## Pure Sine Wave Inverters

# THE POWER



PST-3000-12

The PST series provides clean pure sine wave power that users have come to depend on for years. PST's commercial grade design is suitable for heavy duty loads, long periods of continuous operation and for emergency back-up, giving you peace of mind when it comes to safe and reliable AC power.

### PST-120-12

Use to operate laptops, portable electronics, small TVs, DVDs, light-duty hand tools and other sensitive electronic devices. Safety listed to ANSI/AAMI ES60601-1 as recognized component for use in medical environments.

- USB charging port: 5V, 500mA
- Lightweight, portable & compact
- LED indicator
- Temperature controlled fan
- 12V power plug included
- Low idle power draw of less than 0.5A



PST-120-12

### Optional Remote Controls

#### RC-15A

- For use with 600 and 1000 Watt models
- Power ON/OFF
- LED indicators for overload, over temperature and power
- 15' of cable



RC-15A

#### RC-300

- For use with 1500W - 3000 Watt models
- LCD indicates AC volts, AC amps, frequency, power (watts) and power factor
- 25' of cable



RC-300



# YOU NEED



PST-150-12

PST-1000-12

## Design Features

- Quiet Operation – temperature controlled fan reduces energy consumption
- Extremely low interference with other devices
- GFCI protected outlets
- 1500, 2000 and 3000W models come with additional hard-wired interface
- Low idle power draw
- Suitable for heavy duty loads, long periods of continuous operation & for emergency back up
- Wide operating DC input range compatible with new high voltage alternators
- Universal Protection Circuit: low voltage, over voltage, over temperature, over load and short circuit

## Applications

- |                                |   |
|--------------------------------|---|
| Solar power systems            | Telecommunication                             |
| Emergency backup power         | Field work/construction sites                 |
| Mobile offices                 | Home electronics:<br>TV, DVD, gaming consoles |
| Cordless tool chargers         | Tools and appliances                          |
| Recreational vehicles, camping | Computer and printers                         |
| Automotive & marine            |   |

**Compliance** FCC Approved, ETL Safety Listed to UL Standard 458, Certified to CSA STD C22.2 No. 107.1-01

**2 YEAR LIMITED WARRANTY**



## SPECIFICATIONS

| Model        | Input (VDC)  | Output (VAC) | Output Power (W) | Surge (W) | Weight (lbs) | Dimensions (inches)  | Outlets |
|--------------|--|--------------|------------------|-----------|--------------|----------------------|---------|
| PST-120-12   | 13   | 120          | 120              | -         | 1.0          | 4.13 x 7.44 x 1.2    | 1       |
| PST-150-12   | 12   | 120          | 150              | 300       | 2.8          | 8.31 x 6.1 x 2.58    | 2       |
| PST-300-12   | 12   | 120          | 300              | 500       | 3.46         | 9.69 x 6.1 x 2.58    | 2       |
| PST-600-12   | 12   | 120          | 600              | 1000      | 5.9          | 10.87 x 9.37 x 3.23  | 2       |
| PST-1000-12  | 12   | 120          | 1000             | 2000      | 8.8          | 15.63 x 9.37 x 3.23  | 2       |
| PST-1500-12* | 12   | 120          | 1500             | 3000      | 15.6         | 18.43 x 10.35 x 4.16 | 2       |
| PST-2000-12* | 12   | 120          | 2000             | 3500      | 15.6         | 18.43 x 10.35 x 4.16 | 2       |
| PST-3000-12* | 12   | 120          | 3000             | 6000      | 21.6         | 17.97 x 10.35 x 5.71 | 2       |
| PST-150-24   | 24   | 120          | 150              | 300       | 2.8          | 8.31 x 6.1 x 2.58    | 2       |
| PST-300-24   | 24   | 120          | 300              | 500       | 3.46         | 9.69 x 6.1 x 2.58    | 2       |
| PST-600-24   | 24   | 120          | 600              | 1000      | 5.9          | 10.87 x 9.37 x 3.23  | 2       |
| PST-1000-24  | 24   | 120          | 1000             | 2000      | 8.8          | 15.63 x 9.37 x 3.23  | 2       |
| PST-1500-24* | 24   | 120          | 1500             | 3000      | 15.6         | 18.43 x 10.35 x 4.16 | 2       |
| PST-2000-24* | 24   | 120          | 2000             | 3500      | 15.6         | 18.43 x 10.35 x 4.16 | 2       |
| PST-3000-24* | 24   | 120          | 3000             | 6000      | 21.6         | 17.97 x 10.35 x 5.71 | 2       |
| PST-600-48   | 48   | 120          | 600              | 1000      | 5.9          | 10.87 x 9.47 x 3.23  | 2       |
| PST-1500-48* | 48   | 120          | 1500             | 3000      | 15.6         | 18.43 x 10.35 x 4.16 | 2       |
| RC-15A       | Optional remote for 600 and 1000 Watt models. Power ON/OFF. LED indicators for overload, over temperature and power. 15' cable.      |              |                  |           |              |                      |         |
| RC-300       | Optional remote for 1500W - 3000 Watt models. LCD indicates AC volts, AC amps, frequency, power (watts) and power factor. 25' cable. |              |                  |           |              |                      |         |

\* Hard-wireable

# PST E SERIES (230 VAC)

## Pure Sine Wave Inverters



PST-30S-12E

### Design Features

- Silent Operation – temperature controlled fan reduces energy consumption
- Extremely low interference with other devices
- Low idle power draw
- Clean and reliable AC power identical to household electricity
- Wide operating DC input range
- Universal Protection Circuit: low voltage, over voltage, over temperature, over load and short circuit
- 50 Hz / 60 Hz (Switch selectable: 50 Hz default)

### Applications

- Solar power systems
- Emergency backup power
- Mobile offices
- Cordless tool chargers
- Recreational vehicles, camping
- Automotive & marine
- Telecommunication
- Field work/construction sites
- Home electronics: TV, DVD, gaming consoles
- Tools and appliances
- Computer and printers

### Compliance CE

2 YEAR LIMITED WARRANTY



### RC-300

- For use with 3000 Watt models
- LCD indicates AC volts, AC amps, frequency, power (watts) and power factor
- 25' of cable



RC-300

### SPECIFICATIONS

| Model        | Input (VDC)  | Output (VAC) | Output Power (W) | Surge (W) | Weight (lbs) | Dimensions (inches)  | Outlets (Schuko) |
|--------------|--|--------------|------------------|-----------|--------------|----------------------|------------------|
| PST-15S-12E  | 12   | 230          | 150              | 300       | 2.8          | 9.8 x 6.1 x 2.5      | 1                |
| PST-30S-12E  | 12   | 230          | 300              | 500       | 2.9          | 9.8 x 6.1 x 2.5      | 1                |
| PST-60S-12E  | 12   | 230          | 600              | 1000      | 5.4          | 11.1 x 9.5 x 3.2     | 1                |
| PST-100S-12E | 12   | 230          | 1000             | 2000      | 8.8          | 15.7 x 9.5 x 3.2     | 1                |
| PST-150S-12E | 12   | 230          | 1500             | 3000      | 12.7         | 16.3 x 11.1 x 4      | 2                |
| PST-200S-12E | 12   | 230          | 2000             | 4000      | 13.0         | 16.3 x 11.1 x 4      | 2                |
| PST-300S-12E | 12   | 230          | 3000             | 6000      | 21.6         | 17.97 x 10.35 x 5.71 | 1                |
| PST-15S-24E  | 24   | 230          | 150              | 300       | 2.8          | 9.8 x 6.1 x 2.5      | 1                |
| PST-30S-24E  | 24   | 230          | 300              | 500       | 2.9          | 9.8 x 6.1 x 2.5      | 1                |
| PST-60S-24E  | 24   | 230          | 600              | 1000      | 5.4          | 11.1 x 9.5 x 3.2     | 1                |
| PST-100S-24E | 24   | 230          | 1000             | 2000      | 8.8          | 15.7 x 9.5 x 3.2     | 1                |
| PST-150S-24E | 24   | 230          | 1500             | 3000      | 12.7         | 16.3 x 11.1 x 4      | 2                |
| PST-200S-24E | 24   | 230          | 2000             | 4000      | 13.0         | 16.3 x 11.1 x 4      | 2                |
| PST-300S-24E | 24   | 230          | 3000             | 6000      | 21.6         | 17.97 x 10.35 x 5.71 | 1                |
| PST-60S-48E  | 48   | 230          | 600              | 1000      | 5.9          | 11.1 x 9.5 x 3.2     | 1                |
| RC-15        | Optional remote for 600 - 2000W models.  |              |                  |           |              |                      |                  |
| RC-300       | Optional remote for 3000 Watt models. 25' cable. Detailed monitoring and remote power operation. |              |                  |           |              |                      |                  |



# PSR RACK MOUNT SERIES

## Pure Sine Wave Inverters with Transfer Relay



PSR-1200-24

Inverter core technology built on the robust industry proven Samlex PST Series.

Provide reliable AC power to your communications equipment and minimize equipment failure due to grid instability. Samlex is proud to introduce the new PSR Series rack mounted inverter with built-in transfer relay.

### Design Features

- Extremely fast synchronized transfer from grid to inverter and back
- Built-in 16A automatic transfer switch
- On-Line and Off-Line modes
- Load Priority algorithm
- Flexible configurable parameters
- Contact relays and external ON/OFF
- Configurable via front panel, USB, or RS-232C
- Space saving 19" rack 1U enclosure
- Ethernet webpage monitoring
- SNMP Alarm Trap generation for NOC monitoring

### Applications

Telecommunication  
Emergency backup power

UPS system

**Compliance** Conforms to UL STD. 62368-1. Certified to CSA STD. C22.2 No. 62368-1

2 YEAR LIMITED WARRANTY



### Two Modes of Operation

AC output power is available in one of the following two modes:

#### 1. On-line Mode:

AC output power is always provided by inverter. External AC input is in standby.

#### 2. Off-line Mode:

AC output is always provided by the external AC input. Inverter is in standby.

### SPECIFICATIONS

| Model       | Nominal VDC | Output VAC | Output Power Watts | Surge Power Watts | Weight (lbs) | Dimensions (inches) |
|-------------|-------------|------------|--------------------|-------------------|--------------|---------------------|
| PSR-1200-24 | 24          | 120        | 1200               | 2000              | 12.8         | 19 x 15.23 x 1.73   |
| PSR-1200-48 | 48          | 120        | 1200               | 2000              | 12.8         | 19 x 15.23 x 1.73   |





# SSW SERIES

## Pure Sine Wave Inverters



SSW-1000-12A

### Design Features

- High surge, 2x continuous operating power
- Soft start technology – the unit ramps up gradually, putting less strain on the inverter and the load
- Compact and lightweight
- Universal circuit protection: thermal, battery, overload, short circuit, earth fault
- 350W and 600W units have a USB charging port
- 1000W, 1500W, and 2000W models include an LCD ON/OFF remote control

### Applications

- |                        |   |
|------------------------|---|
| Emergency backup power | Home electronics:<br>TV, DVD, gaming consoles |
| Mobile offices         | Tools and appliances                          |
| Recreational vehicles  | Computers, printers                           |
| Camping                |   |

**Compliance** ETL Safety Listed to UL Standard 458

2 YEAR LIMITED WARRANTY



### Install your inverter SAFELY and SIMPLY with a Samlex Inverter Installation wiring kit.

Each kit contains industrial grade 10' cables, a fuse assembly with a replaceable fuse & all of the hardware required to complete your inverter installation in a few easy steps. Kits are available in 4 sizes. See page 16 for more details.



DC-2500-KIT

### SPECIFICATIONS

| Model        | Input (VDC)  | Output (VAC) | Output Power (W) | Surge (W) | Weight (lbs) | Dimensions (inches) | Outlets | USB |
|--------------|--|--------------|------------------|-----------|--------------|---------------------|---------|-----|
| SSW-350-12A  | 12   | 115          | 350              | 700       | 2.0          | 8.86 x 6.10 x 2.32  | 2       | Yes |
| SSW-600-12A  | 12   | 115          | 600              | 1200      | 2.4          | 10.0 x 6.10 x 2.32  | 2       | Yes |
| SSW-1000-12A | 12   | 115          | 1000             | 2000      | 6.4          | 11.10 x 8.74 x 3.50 | 2       | n/a |
| SSW-1500-12A | 12   | 115          | 1500             | 3000      | 7.8          | 13.11 x 8.74 x 3.50 | 2       | n/a |
| SSW-2000-12A | 12   | 115          | 2000             | 4000      | 9.0          | 13.11 x 8.74 x 3.50 | 2       | n/a |
| SSW-R1-12B   | Remote Control for use with 1000W, 1500W & 2000W models, included. |              |                  |           |              |                     |         |     |

### SSW-R1-12B Remote Control included with every 1000W, 1500W & 2000W Model:

- Power ON/OFF
- 10' cable with RJ45 connector
- Display Indicates: Input voltage, Output power, Input fault, Output fault
- Also sold separately



SSW-R1-12B

# PSE SERIES

## Modified Sine Wave Inverters



PSE-12125A

### Design Features

- Wide DC voltage range of 10.5 VDC to 16.5 VDC
- High efficiency
- Overload protection
- High output current surge
- Low battery alarm/shut down
- Low idle power draw
- Optional remote control

### Applications

- Mobile offices
- Boats
- Recreational
- Recreational vehicles
- Camping
- Telecommunication
- Construction sites
- Solar power systems
- Emergency backup power
- Home electronics

2 YEAR LIMITED WARRANTY

### Optional Remote Control RC-15

- For use with 600, 1000, 1500 and 2000 Watt Models
- ON/OFF button
- 15' of cable



RC-15

### SPECIFICATIONS

| Model       | Input (VDC)                           | Output (VAC) | Output Power (W) | Surge (W) | Weight (lbs) | Dimensions (inches) | Outlets (NEMA5-15R) |
|-------------|---------------------------------------|--------------|------------------|-----------|--------------|---------------------|---------------------|
| PSE-12125A  | 12                                    | 120          | 1250             | 2500      | 6.8          | 9.45 x 13.19 x 3.35 | 2                   |
| PSE-12175A  | 12                                    | 120          | 1750             | 3500      | 9.4          | 9.45 x 17.91 x 3.35 | 2                   |
| PSE-12275A* | 12                                    | 120          | 2750             | 4500      | 16.2         | 8.07 x 19.49 x 6.30 | 1                   |
| PSE-24125A  | 24                                    | 120          | 1250             | 2500      | 6.8          | 9.45 x 13.19 x 3.35 | 2                   |
| PSE-24175A  | 24                                    | 120          | 1750             | 3500      | 9.4          | 9.45 x 17.91 x 3.35 | 2                   |
| PSE-24275A* | 24                                    | 120          | 2750             | 4500      | 16.2         | 8.07 x 19.49 x 6.30 | 1                   |
| RC-15       | Remote Control. Comes with 15' cable. |              |                  |           |              |                     |                     |

\* Hard-wireable

### Models PSE-12275A & PSE-24275A

Output AC power is available by means of hardwire connection. A NEMA5-15R receptacle with 15 Amp breaker is also included.



PSE-24275A

# SAM SERIES

## Modified Sine Wave Inverters



SAM-1000-12

### Design Features

- Compact design, durable construction
- Load controlled cooling fan
- Low battery input alarm
- Universal protection circuit: thermal, battery, overload, short circuit, earth fault
- Soft start technology
- 100W to 800W models include a USB charging port, 2.1 Amps
- 1000W to 3000W models have the option for remote ON/OFF control

### Applications

- |                                |   |
|--------------------------------|---|
| Solar power systems            | Telecommunication                             |
| Emergency backup power         | Field work/construction sites                 |
| Service vehicles               | Home electronics:<br>TV, DVD, gaming consoles |
| Mobile offices                 | Tools & appliances                            |
| Recreational vehicles, camping |   |

**Compliance** ETL Safety Listed to UL Standard 458

**2 YEAR LIMITED WARRANTY**



### SAM-100-12

Easily plugs into any 12V socket in your car, boat, truck or RV.



### SPECIFICATIONS

| Model         | Input (VDC)  | Output (VAC) | Output Power (W) | Surge (W) | Weight (lbs) | Dimensions (inches) | Outlets |
|---------------|--|--------------|------------------|-----------|--------------|---------------------|---------|
| SAM-100-12*   | 12   | 115          | 100              | 200       | 0.30         | 2.36 x 5.08 x 1.44  | 1       |
| SAM-250-12**  | 12   | 115          | 250              | 500       | 0.92         | 4.5 x 5.9 x 1.8     | 1       |
| SAM-450-12**  | 12   | 115          | 450              | 900       | 1.30         | 6.1 x 6.0 x 2.2     | 2       |
| SAM-800-12†   | 12   | 115          | 800              | 1600      | 2.91         | 7.0 x 8.6 x 2.4     | 2       |
| SAM-1000-12   | 12   | 115          | 1000             | 2000      | 3.70         | 7.1 x 9.84 x 2.32   | 2       |
| SAM-1500-12   | 12   | 115          | 1500             | 3000      | 7.10         | 7.95 x 11.14 x 3.3  | 2       |
| SAM-2000-12   | 12   | 115          | 2000             | 4000      | 8.50         | 7.95 x 13.58 x 3.3  | 3       |
| SAM-3000-12   | 12   | 115          | 3000             | 6000      | 11.80        | 7.95 x 16.53 x 3.3  | 3       |
| SAM-450-12E** | 12   | 230          | 450              | 900       | 1.30         | 6.0 x 6.1 x 1.80    | 1       |
| SAM-RC        | Remote Control for use with 1000W to 3000W models. |              |                  |           |              |                     |         |

\* Comes with 12V power plug

† Comes with battery clamps



### SAM-RC Remote Control

- Power ON/OFF
- 10' cable with RJ45 Connector
- Bar Meter Monitor for battery charge level and output power
- LED indicator for voltage, temperature and overload protection.
- Sold separately



# SAM-1500C-12

## Modified Sine Wave Inverter/Charger



SAM-1500C-12

### Design Features

- Integrated 1500W Modified Sine Wave Inverter, 30A Transfer switch, and 2 Stage 12 VDC, 15A Battery Charger
- High efficiency, lightweight, and compact for easy installation
- Separate ON/OFF control for Inverter and Battery Charger for selectable operation as inverter, charger or UPS function
- 4 color LED indicators to monitor operational status
- Load controlled fan for efficient cooling when required
- Allows use of higher capacity external 12V battery bank for longer backup time
- Neutral to Ground Bond Switching Relay for grounding compliance
- Electronic protections including GFCI when in Inverter Mode

### Applications

Back-up power systems  
12V Battery charging

Remote shelters  
RV's, trucks & utility vehicles

**2 YEAR LIMITED WARRANTY**

### Efficient Backup Power...

The transfer switch automatically detects utility or generator power and transitions to your battery bank when grid power is unavailable.

Also provides safe and rapid charging of 12V battery bank when grid power is available.

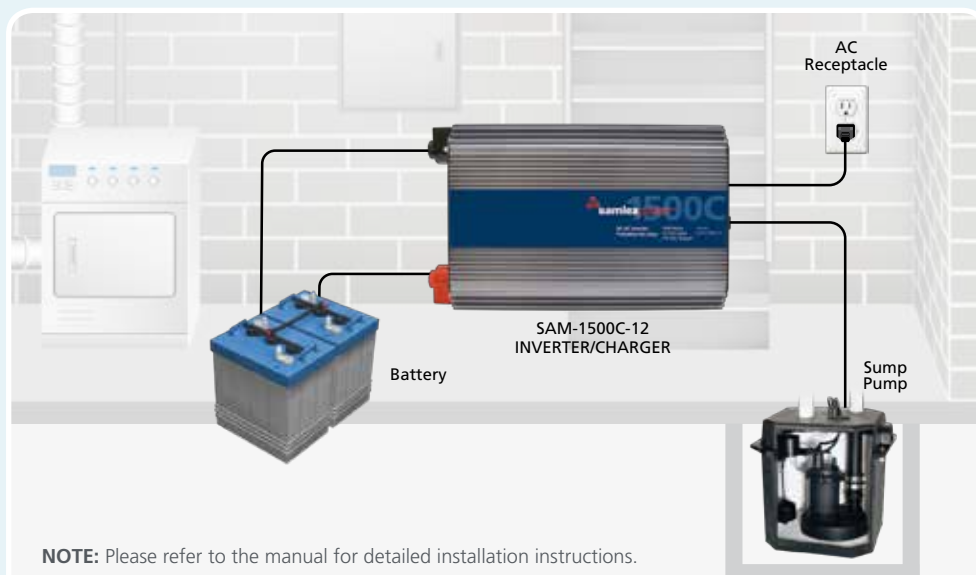
**Optional Fuses & Circuit Protection refer to page 17**



DC-FA-100

### SPECIFICATIONS

| Model        | Input (VDC) | Output (VAC) | Output Power (W) | Surge (W) | Weight (lbs) | Dimensions (inches) | Outlets (NEMA5-15R) |
|--------------|-------------|--------------|------------------|-----------|--------------|---------------------|---------------------|
| SAM-1500C-12 | 12          | 115          | 1500             | 3000      | 8.82         | 7.95 x 13.58 x 3.30 | 2                   |



**NOTE:** Please refer to the manual for detailed installation instructions.

# INVERTER ACCESSORIES

## Installation Kits, Fuses & Circuit Protection



DC-2500-KIT

Connect your inverter to a battery bank safely and simply. Each kit contains a pair of heavy duty cables, a fuse assembly with replaceable fuse, and all of the necessary hardware.

Samlex uses the highest quality of industrial grade, flexible cables suitable to be used as battery cables for automotive and renewable energy applications.

### Design Features

Cable Features:

- 600V rating
- Wide operating temperature of -50°C to 105°C
- High strand count, annealed and tinned copper conductors for high flexibility
- Has layers of insulation that provide resistance to abrasion, oils, acids and heat
- Ethylene Propylene Rubber (EPR) jacket provides the high 600V insulation and resistance to abrasion, oils acids and heat

### Applications

- |                                |                               |
|--------------------------------|-------------------------------|
| Solar power systems            | Telecommunication             |
| Emergency backup power         | Field work/construction sites |
| Mobile offices                 | Home electronics              |
| Recreational vehicles, camping | Tools and appliances          |
| Automotive                     | Computer and printers         |

### 2 YEAR LIMITED WARRANTY

| Model No.<br>of Inverter<br>Installation Kit |                      |                  | PST Series         |                  |             |             |             |            |             |             |             |             |            |             |              |              |              |              |             |              |              |              |              |             |   |  |
|--|----------------------|------------------|--------------------|------------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|------------|-------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|-------------|---|--|
|  |                      |                  | PST-600-12         | PST-1000-12      | PST-1500-12 | PST-2000-12 | PST-3000-12 | PST-600-24 | PST-1000-24 | PST-1500-24 | PST-2000-24 | PST-3000-24 | PST-600-48 | PST-1500-48 | PST-100S-12E | PST-150S-12E | PST-200S-12E | PST-300S-12E | PST-60S-24E | PST-100S-24E | PST-150S-24E | PST-200S-24E | PST-300S-24E | PST-60S-48E |   |  |
| Cable  | Fuse                 | DC-1000-KIT      | AWG#4<br>2 x 10 ft | MRBF-100<br>100A | ●           |             |             |            |             | ●           | ●           | ●           |            |             | ●            | ●            |              |              |             | ●            | ●            | ●            |              |             | ● |  |
| DC-2000-KIT                                  | AWG#2<br>2 x 10 ft   | MRBF-200<br>200A |                    | ●                |             |             |             |            |             |             |             |             | ●          | ●           |              | ●            |              |              |             |              |              |              | ●            | ●           |   |  |
| DC-2500-KIT                                  | AWG#2/0<br>2 x 10 ft | MRBF-300<br>300A |                    |                  | ●           | ●           |             |            |             |             |             |             |            |             |              |              | ●            | ●            |             |              |              |              |              |             |   |  |
| DC-3500-KIT                                  | AWG#4/0<br>2 x 10 ft | MRBF-400<br>400A |                    |                  |             |             | ●           |            |             |             |             |             |            |             |              |              |              | ●            |             |              |              |              |              |             |   |  |

Recommended size of inverter for up to 3% voltage drop from Battery to the Inverter for 10 ft cable run and current equal to Ampere rating of the fuse.

- NOTES:**
- Specifications are subject to change without notice.
  - Cable Specifications: (i) Red Positive, Black Negative, each 10 ft length, (ii) 600V, -50°C to 105°C, (iii) Stranded conductors with crimped Ring Terminals on either end: Hole diameter 0.41" for 3/8" stud.

# INVERTER ACCESSORIES

## Installation Kits, Fuses & Circuit Protection



DC-FA-100



DC-FB-2



MRBF-300



JLLN-400



CFB2-400

## Design Features

Fuses and Circuit Protection:

- 100A, 200A and 300A Marine Rated Battery Fuses are provided with DC-1000-KIT, DC-2000-KIT and DC-2500-KIT respectively. The MRBF Fuse with high Ampere Interrupting Capacity (AIC) provides easy, weatherproof and safe short circuit protection.
- 400A Class T Fuse is provided with DC-3500-KIT. Each Class T Fuse has a very high AIC, and is designed for protection against damage due to short circuit conditions in battery cables.

## SPECIFICATIONS

| Model     | Description                             |
|-----------|---|
| DC-FA-100 | Fuse Assembly, 100 Amps                 |
| DC-FA-200 | Fuse Assembly, 200 Amps                 |
| DC-FA-300 | Fuse Assembly, 300 Amps                 |
| DC-FB-2   | Double Pole Fuse Bar                    |
| MRBF-100  | Replacement Fuse, 100 Amps              |
| MRBF-200  | Replacement Fuse, 200 Amps              |
| MRBF-300  | Replacement Fuse, 300 Amps              |
| CFB2-400  | DC Class T Fuse Block with 400 Amp Fuse |
| JLLN-400  | Class T Replacement Fuse, 400 Amp       |

## 2 YEAR LIMITED WARRANTY

| Inverter Installation Kit Model No.                      Cable                      Fuse |                      |                  | SSW Series  |              |              |              | PSE Series |            |            |            |            |            | SAM Series |             |             |             |             |              | EVO™ Series    |                |          |          |          |           |           |           |
|--|----------------------|------------------|-------------|--------------|--------------|--------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|----------------|----------------|----------|----------|----------|-----------|-----------|-----------|
|  |                      |                  | SSW-600-12A | SSW-1000-12A | SSW-1500-12A | SSW-2000-12A | PSE-12125A | PSE-12175A | PSE-12275A | PSE-24125A | PSE-24175A | PSE-24275A | SAM-800-12 | SAM-1000-12 | SAM-1500-12 | SAM-2000-12 | SAM-3000-12 | SAM-1500C-12 | EVO-1212F (HW) | EVO-1224F (HW) | EVO-2212 | EVO-2224 | EVO-4024 | EVO-2212E | EVO-2224E | EVO-4024E |
| DC-1000-KIT  | AWG#4<br>2 x 10 ft   | MRBF-100<br>100A | ●           |              |              |              |            |            | ●          | ●          |            | ●          |            |             |             |             |             |              | ●              |                |          |          |          |           |           |           |
| DC-2000-KIT  | AWG#2<br>2 x 10 ft   | MRBF-200<br>200A |             | ●            |              |              |            | ●          |            |            |            | ●          |            |             |             |             |             | ●            |                |                | ●        |          |          | ●         |           |           |
| DC-2500-KIT  | AWG#2/0<br>2 x 10 ft | MRBF-300<br>300A |             |              | ●            | ●            |            | ●          |            | ●          |            |            | ●          | ●           |             | ●           |             |              |                |                |          | ●        |          |           | ●         |           |
| DC-3500-KIT  | AWG#4/0<br>2 x 10 ft | MRBF-400<br>400A |             |              |              |              |            |            | ●          |            |            |            |            |             |             | ●           |             |              | ●              |                |          |          | ●        |           |           |           |

Recommended size of inverter for up to 3% voltage drop from Battery to the Inverter for 10 ft cable run and current equal to Ampere rating of the fuse.

**NOTES:** a) Specifications are subject to change without notice.  
b) Cable Specifications: (i) Red Positive, Black Negative, each 10 ft length, (ii) 600V, -50°C to 105°C,  
(iii) Stranded conductors with crimped Ring Terminals on either end: Hole diameter 0.41" for 3/8" stud.



# STS-30

## Transfer Switch



STS-30

### Design Features

- Rated capacity of 30 Amps at 120VAC and is suitable for a 30 Amp Utility Power Cord and a Generator of up to 3.6 KVA capacity
- Heavy duty Double Pole Double Throw (DPDT) relay for switching both the Line and Neutral
- 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 to enable time delay when transferring to a generator to provide warm-up time

### Applications

- Solar power systems
- Emergency backup power
- Mobile offices
- Boats
- Lighting systems
- Recreational vehicles, camping
- Automotive
- Telecommunication
- Field work/construction sites

Use a Samlex Transfer Switch to automatically switch between utility power and generator or between utility power and inverter.

### 2 YEAR LIMITED WARRANTY

#### Pre-wired

For ease of connection for setting up back up power / UPS system comprised of an inverter, battery charger, and batteries.

#### Primary AC power

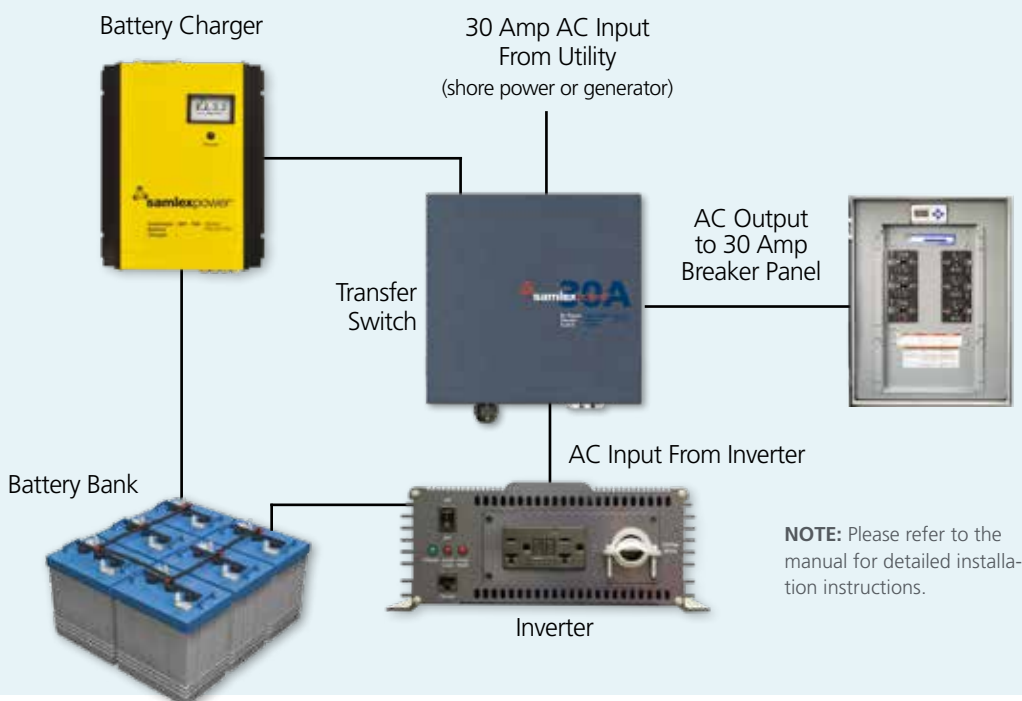
Is drawn from Electric Utility, Shore Power or Generator.

#### Back up power

Is provided by inverter powered from batteries charged by battery charger.

#### SPECIFICATIONS

| Model  | Description                    | Weight (lbs) | Dimensions (inches) |
|--------|--------------------------------|--------------|---------------------|
| STS-30 | Automatic Transfer Switch, 30A | 4.4          | 9.0 x 8.4 x 3.2     |



# SEC UL SERIES

## Battery Chargers



SEC-1215UL

The SEC UL Series Battery Chargers are fully automatic and based on Samlex's industry proven design that professionals have depended on for years.

### Design Features

- High efficiency, commercial grade, lightweight, quiet operation
- 2 or 3 stage charging (user selectable)
- 120 or 230 VAC, 50/60 Hz (user selectable)
- For all types of Lead Acid batteries
- Charge loaded or unloaded batteries
- Use as a power supply or DC UPS
- Universal Protection Circuit – short circuit, overload, reverse battery polarity
- Charge 2 to 3 banks of batteries at once – no isolator necessary
- Optional remote LED panel (select models)
- Temperature Compensated Charging (select models)
- Half power mode (select models)

### Applications

- |                       |                            |
|-----------------------|----------------------------|
| Automotive            | Communication sites        |
| Recreational vehicles | Battery back-up systems    |
| Boats                 | Alternative energy systems |

**Compliance** Safety Certified and Listed to UL Standard UL-156, EMI Complaint to FCC Part 15(B), Class B, RoHS

2 YEAR LIMITED WARRANTY   **RoHS**

### 900-RC Remote Control

The 900-RC Remote Control comes with a 33' cable. The Remote Panel can be used to power ON/OFF and also monitor the charging status from a remote location.



900-RC

### SPECIFICATIONS

| Model  | VDC | Amps | Weight (lbs) | Dimensions (inches) | Temp. Sensor | Half Power Mode | Optional Remote |
|--|-----|------|--------------|---------------------|--------------|-----------------|-----------------|
| SEC-1215UL                                   | 12  | 15   | 4.8          | 8.5 x 8.4 x 3.3     | -            | -               | -               |
| SEC-1230UL                                   | 12  | 30   | 6.4          | 10.8 x 8.4 x 3.3    | -            | -               | -               |
| SEC-1250UL                                   | 12  | 50   | 11.0         | 13.0 x 9.6 x 3.82   | Yes          | Yes             | 900-RC          |
| SEC-1280UL                                   | 12  | 80   | 12.1         | 15.0 x 9.6 x 3.82   | Yes          | Yes             | 900-RC          |
| SEC-2415UL                                   | 24  | 15   | 6.4          | 10.8 x 8.4 x 3.3    | -            | -               | -               |
| SEC-2425UL                                   | 24  | 25   | 11.0         | 13.0 x 9.6 x 3.82   | Yes          | Yes             | 900-RC          |
| SEC-2440UL                                   | 24  | 40   | 12.1         | 15.0 x 9.6 x 3.82   | Yes          | Yes             | 900-RC          |
| 900-RC Remote Control. Comes with 33' cable. |     |      |              |                     |              |                 |                 |

Temperature sensor prevents under/over charging of battery if temperature varies extensively.



# SRV SERIES

## Solar Charging Kits



SRV-100-KIT

SRV-150-KIT

### Design Features

- Solar panels constructed with top of the line solar cell, all weather anodize aluminum and tempered glass that comply with the highest industry standards
- High efficiency
- Waterproof connectors
- Resilient to harsh weather conditions
- Flush mount 30A charge controller with LED status indicators, LCD display, battery equalization and 8 charge settings
- Weather resistant 20' solar panel connecting wires
- Aluminum mounting brackets with large surface areas on top for best stability and five drilling holes for convenient installation

All the parts you need to start using solar in a few simple steps.

### Applications

Solar power systems  
Emergency backup power  
Mobile offices  
Boats  
Lighting systems

Recreational vehicles, camping  
Automotive  
Telecommunication  
Field work/construction sites



## What's in Your SRV Kit



100W Panel

150W Panel

### SPECIFICATIONS

| Model       | Solar Panel | Panel Weight (lbs) | Panel Dimensions (Inches) | Charging Power |
|-------------|-------------|--------------------|---------------------------|----------------|
| SRV-100-30A | 100W        | 17.63              | 47.25 x 21.73 x 1.39      | 5.81A          |
| SRV-150-30A | 150W        | 26.4               | 26.0 x 58.03 x 1.39       | 8.82A          |



SCC-30AB



SCW-20-2



SM5-KIT

### 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
- Water proof connectors
- High transparency tempered glass
- Anodized aluminium frames
- Resilient to harsh weather conditions

### 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.

### Connecting Wires

A pair of weather resistant 20' connecting wires are provided to connect your panel to a charge controller or to an additional panel. Also sold separately.

### Mounting Brackets & Hardware

Provided to secure the solar panel to a flat surface while providing space underneath to facilitate cooling. Also sold separately.

**SAMLEX BULK SOLAR PANELS are available by special order.**



# SSP SERIES

## Solar Panel Kits



Mix and match panels with charge controllers (see pages 23-25) and accessories for a customized solar system. Can also be used to expand SRV Kits.

### Includes:

- High efficiency Solar Panel
- SCW-20-2 Connecting Wires
- SM5-KIT Mounting Brackets & Hardware

Available in 100 and 150 Watts.

### Applications

- |                        |                                |
|------------------------|--------------------------------|
| Solar power systems    | Recreational vehicles, camping |
| Emergency backup power | Automotive                     |
| Mobile offices         | Telecommunication              |
| Boats                  | Field work/construction sites  |
| Lighting systems       |                                |

### SPECIFICATIONS

| Model       | Solar Panel | Panel Weight (lbs) | Panel Dimensions (Inches) | Charging Power |
|-------------|-------------|--------------------|---------------------------|----------------|
| SSP-100-KIT | 100W        | 17.63              | 47.25 x 21.73 x 1.39      | 5.81A          |
| SSP-150-KIT | 150W        | 26.4               | 26.0 x 58.03 x 1.39       | 8.82A          |

## Solar Accessories

(sold separately)



### ADJ-28

#### Adjustable Solar Panel Tilt Mount

Over 30 adjustable settings from 0-90°. Get up to 40% more out of your solar panel.



### SBC-2

#### Branch Connectors

Connect panels in parallel. Includes (1) male and (1) female. Use to expand SRV kits with SSP panels.



### MC4-2

#### Multi-Contact Connectors

Connect panels in series. Includes (1) male and (1) female.



### SCW-20-2

#### Connecting Wires

Connect your panel to a charge controller or to an additional panel. 20' of cable provided.



### SM5-KIT

#### Mounting Brackets & Hardware

Secures the solar panel to a flat surface, provides space underneath for cooling.



**Customize or expand your solar system based on your power needs.**

# MSK SERIES

## Portable Charging Kits



### Design Features

- Solar panel is pre-wired with battery clamps for a quick and easy connection, 16' cable
- Turn the panel a few times per day and increase charging by 30%
- Adjustable legs allow for maximum sun exposure
- Folding crystalline panels in anodized aluminum frames, won't rust
- Built-in 10 Amp charge controller manages the charge to the battery and prevents overcharging
- For use with 12V Lead Acid batteries (not included)
- Includes protective carrying case

### Applications

- |                         |                       |
|-------------------------|-----------------------|
| Emergency Back-up Power | Motor Sports          |
| Field Work              | Remote Locations      |
| Cabins                  | Recreational Vehicles |
| Camping                 | Ice Fishing Huts      |
| Boating                 |                       |

Take solar with you. Easy to use! Just unfold, attach the pre-wired battery clamps to a battery and start charging.

**10 YEAR POWER WARRANTY**

## What's in Your MSK Kit



**3 Fold Solar Panel**



**Protective Carrying Case**



**10 Amp Built-in Charge Controller**



**Pre-wired Battery Clamps**



**2-pin Adapter**

### SPECIFICATIONS

| Model   | Solar Output  | Cell Type       | Weight (lbs) | Dimensions (inches)  | Charging Power |
|---------|---|-----------------|--------------|----------------------|----------------|
| MSK-90  | 90 Watts  | Monocrystalline | 25.2         | 40.75 x 25.39 x 1.18 | 5.68 Amps      |
| MSK-135 | 135 Watts   | Monocrystalline | 35.6         | 59.65 x 24.41 x 1.18 | 8.52 Amps      |
| MSK-XLR | 2-pin XLR Adapter (sold separately)                   |                 |              |                      |                |
| MSK-EXT | Extension Cable (sold separately) 10 meters / 33 feet |                 |              |                      |                |

### Optional:



**MSK-XLR 2-pin XLR Adapter**



**MSK-EXT Extension Cable**

# SCC-30AB

## Solar Charge Controllers



SCC-30AB

Regulate current flowing from a solar panel to your batteries and optimize charging.

A single 30 Amp Samlex SCC-30AB charge controller can manage multiple panels up to 550W in a 12V system, or up to 1000W in a 24V system under specified conditions.

### Design Features

- PWM series type
- Battery equalization
- 8 charge settings for most battery types
- 4-stage charging with LED indicators
- Digital LCD display indicates battery voltage, PV current, PV watts, daily and accumulated Ah, charging stage and battery temperature
- Switch selectable 12 VDC or 24 VDC
- Flush mount design

### Applications

- |                                 |                       |
|---------------------------------|-----------------------|
| Mobile command centers          | Field work            |
| Service vehicles                | Rural electrification |
| Boats                           | Solar home systems    |
| Off-grid & mobile solar systems | Recreational vehicles |

### 5 YEAR LIMITED WARRANTY

### Battery Temperature Sensor

Recommended to maintain and extend the life of your batteries. Temperature compensated charging ensures that batteries are charged to maximum capacity in cool environments, and well protected from over-charging in warm environments. For use exclusively with SCC-30AB. Sold separately.



DC-BTS-A-C

| SPECIFICATIONS |                            |          |              |                     |
|----------------|----------------------------|----------|--------------|---------------------|
| Model          | Input (VDC)                | Amps (A) | Weight (lbs) | Dimensions (inches) |
| SCC-30AB       | 12/24                      | 30       | 0.8          | 7.48 x 4.25 x 1.38  |
| DC-BTS-A-C     | Battery Temperature Sensor |          | 0.4          | 33.0 x 0.1 x 0.1    |





# SMC & SCC SERIES

## Solar Charge Controllers



SMC-20



SMC-10

### Design Features

#### SMC-20

- 20 Amps
- LEDs indicate battery state of charge
- Temperature compensation
- Multi-stage charging technology
- Voltage and current regulation
- Automatic load reconnection
- Programmed for use with Flooded AGM batteries
- Automatically detects 12 or 24 Volts

#### SMC-10

- 10 Amps
- LEDs indicate battery state of charge
- Temperature compensation
- Multi-stage charging technology
- Voltage and current regulation
- Automatic load reconnection
- Programmed for use with sealed GEL batteries
- Automatically detects 12 or 24 Volts

### 5 YEAR LIMITED WARRANTY

## SCC-1208L

### 8 Amp Charge Controller

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



SCC-1208L

### SPECIFICATIONS

| Model     | Input (VDC) | Amps (A) | Weight (lbs) | Dimensions (inches) |
|-----------|-------------|----------|--------------|---------------------|
| SMC-10    | 12/24       | 10       | 0.33         | 5.71 x 3.94 x 0.94  |
| SMC-20    | 12/24       | 20       | 0.80         | 7.36 x 3.75 x 1.77  |
| SCC-1208L | 12          | 8        | 0.276        | 3.8 x 1.8 x 1.0     |





# STECA SERIES

## Solar Charge Controllers



SOLSUM 6.6F



PRS-3030



PR-1515

### SOLSUM SERIES

Economical, PWM Series type controller. Wide operating temperature range.

### PRS SERIES

Simple and cost effective, PWM Series type controller. Wide operating temperature range.

### PR SERIES

High performance, PWM Shunt type controller with LCD display. Shows SOC, all currents, alarms, Ah and more.

### PR-2020IP

The Steca PR 2020 IP has been specially designed for operation in difficult environments with high salt, moisture and dust content. Suitable for outdoor installation (IP65).

### MPPT-6000

Maximum Power Point charge controller. Outstanding efficiency along with unique safety features make it a universal top-grade charge controller. Available by Special Order.

### TAROM SERIES

Specially designed for industrial and outdoor applications, the Steca Power Tarom comes with an IP 65 casing made of powder-coated steel. This solar charge controller can be used to control system sizes of up to 8,400 Wp at three voltage levels (12V, 24V, 48V). Available by Special Order.

### TAROM 4545

Hybrid charge controller. The Steca Tarom charge controller is the best choice for system sizes of up to 2,400 Wp at three voltage levels (12V, 24V, 48V). Available by Special Order.

## 2 YEAR LIMITED WARRANTY



### SPECIFICATIONS

| Model         | Input (VDC) | Amps (A)              | Weight (lbs) | Dimensions (inches)  |
|---------------|-------------|-----------------------|--------------|----------------------|
| SOLSUM 6.6 F  | 12/24       | 6                     | 0.33         | 5.71 x 3.94 x 0.94   |
| SOLSUM 8.8 F  | 12/24       | 8                     | 0.33         | 5.71 x 3.94 x 0.94   |
| PRS-1010      | 12/24       | 10                    | 0.76         | 7.36 x 3.78 x 1.77   |
| PRS-1515      | 12/24       | 15                    | 0.76         | 7.36 x 3.78 x 1.77   |
| PRS-3030      | 12/24       | 30                    | 0.76         | 7.36 x 3.78 x 1.77   |
| PR-1010       | 12/24       | 10                    | 0.77         | 7.36 x 3.78 x 1.73   |
| PR-1515       | 12/24       | 15                    | 0.77         | 7.36 x 3.78 x 1.73   |
| PR-2020       | 12/24       | 20                    | 0.77         | 7.36 x 3.78 x 1.73   |
| PR-3030       | 12/24       | 30                    | 0.77         | 7.36 x 3.78 x 1.73   |
| MPPT-6000*    | 12/24/48    | 60                    | 13.0         | 4.8 x 2.16 x 5.78    |
| PR-2020IP*    | 12/24       | 20                    | 77.2         | 4.92 x 11.61 x 13.18 |
| TAROM SERIES* | 12/24/48    | See individual models |              |                      |
| TAROM 4545*   | 12/24       | 45                    | 1.76         | 8.58 x 5.27 x 2.55   |

\*Available by Special Order.

# SUNCHARGER SERIES

## Battery Maintainers



### Design Features

- Maintains 12V battery charge using energy from the sun
- Maintenance free
- Overcome the self-discharge of a battery and extend battery life
- Ultra slim, compact and weather-proof
- Rugged, durable construction - no metal or glass
- Comes with a standard 12V power plug
- Integrated blocking diodes to prevent discharge from the battery

### Applications

- |                   |                       |
|-------------------|-----------------------|
| Service vehicles  | Cars                  |
| Fleet             | Trucks                |
| Marine            | Motorcycles           |
| ATV's             | Recreational vehicles |
| Private aircrafts |                       |

### 2 YEAR LIMITED WARRANTY

### Maintenance free!

Perfect for maintaining the battery in your RV, Car, Boat, Motorcycle or ATV with the power of the sun!

Plug into any connected 12V power socket to keep your battery from self discharging. Extends the life of your batteries and saves on replacement costs.

### SPECIFICATIONS

| Model | Max Power Voltage, $V_{MP}$ | Max Power Current, $I_{MP}$ | Max Power | Dimensions (inches)  | Weight (lbs) |
|-------|-----------------------------|-----------------------------|-----------|----------------------|--------------|
| SC-05 | 12.7 VDC                    | 0.39A                       | 5W        | 11.22 x 8.03 x 0.52  | 0.8          |
| SC-10 | 12.7 VDC                    | 0.79A                       | 10W       | 14.17 x 11.22 x 0.52 | 1.2          |

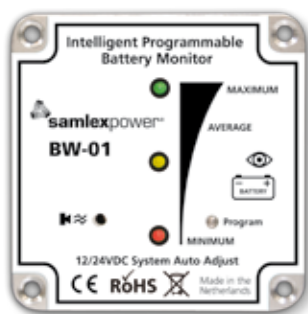


# ISOLATOR, GUARDS & MONITORS

## Battery Accessories



BG-200



BW-01



BW-03

## Design Features

### Battery Guards

- Extends battery life; prevents damage to connected components
- Program disconnect/reconnect at 10 different voltages settings
- Protects against excessive voltage caused by faulty alternators or chargers
- Prevents excessive discharge of batteries
- Automatic voltage detection, 12 VDC or 24 VDC
- Models: BG-40, BG-60 and BG-200

### Battery Monitors

- 12 VDC or 24 VDC programmable monitor
- Displays battery state of charge through LED patterns
- BW-03 monitors 2 batteries
- Models: BW-01 and BW-03

## Applications

- |                                 |                       |
|---------------------------------|-----------------------|
| Marine                          | Renewable energy      |
| Automotive                      | Commercial/industrial |
| Recreational & Utility Vehicles | Communications        |

2 YEAR LIMITED WARRANTY



## ACR-160 Automatic Charge Isolator

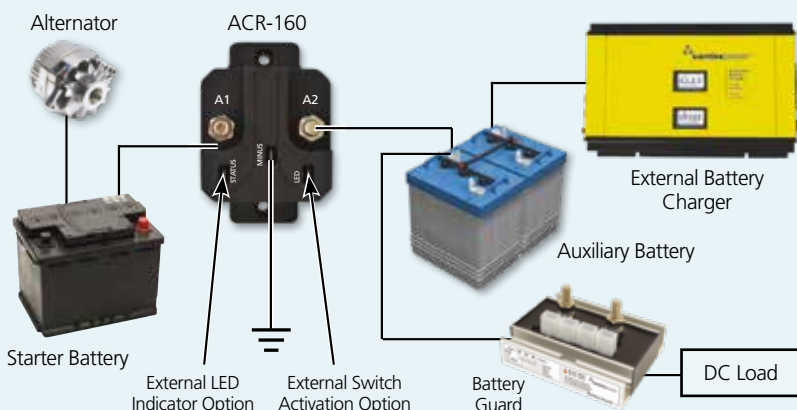
ACR-160 is a voltage dependent switch that separates or parallels starter and auxiliary battery banks. Protects the starter battery from deep discharge, and charges both battery banks while prioritizing starter battery without having to resize the alternator or rewire the system. Also known as a Battery Separator or Automatic Charging Relay.



ACR-160

## SPECIFICATIONS

| Model   | Description               | Amps (A) | Weight (lbs) | Dimensions (inches) | Compliance |
|---------|---------------------------|----------|--------------|---------------------|------------|
| ACR-160 | Automatic Charge Isolator | 160      | 1.0          | 4.2 x 2.9 x 2.3     | -          |
| BG-40   | Battery Guard             | 40       | 0.5          | 3.2 x 2.6 x 1.4     | CE         |
| BG-60   | Battery Guard             | 60       | 0.5          | 3.2 x 2.6 x 1.4     | CE         |
| BG-200  | Battery Guard             | 200      | 0.5          | 4.5 x 4.7 x 2.4     | CE         |
| BW-01   | Battery Monitor           | -        | 0.125        | 2.6 x 2.6 x 0.8     | CE         |
| BW-03   | Battery Monitor           | -        | 0.2          | 2.4 x 2.4 x 0.8     | CE         |



NOTE: Please refer to the manual for detailed installation instructions.



# SDC SERIES

## DC-DC Step-Down Converters



SDC-23

### Design Features

- Advanced switch mode design
- Converts 24 VDC to 12 VDC
- Compact and light weight
- High efficiency
- Current limiting circuit
- Over voltage protection
- Short circuit protection
- Reverse polarity protection
- Mount in almost any location

### Applications

- |                        |                          |
|------------------------|--------------------------|
| Earth moving equipment | Two-way radios           |
| Heavy trucks           | 12 Volt lighting systems |
| Buses                  | AM/FM sound systems      |
| Marine                 | Instrumentation          |

### Compliance CE

The SDC Series DC-DC converters are non-isolated and meant for use in negative ground systems. These converters are designed for heavy duty applications.

2 YEAR LIMITED WARRANTY



### DC-DC Converters can be used to:

1. **Step-Down** voltages where the output voltage is lower than the input voltage.
2. **Step-Up** voltages where the output voltage is higher than the input voltage.
3. **Stabilize** voltages where the nominal input voltages and output voltages are the same.

| SPECIFICATIONS |             |              |          |              |                     |            |
|----------------|-------------|--------------|----------|--------------|---------------------|------------|
| Model          | Input (VDC) | Output (VDC) | Amps (A) | Weight (lbs) | Dimensions (inches) | Compliance |
| SDC-5          | 20-32       | 13.8         | 5.0      | 0.4          | 3.5 x 2.7 x 1.9     | CE         |
| SDC-12         | 20-32       | 13.6         | 12       | 0.6          | 3.9 x 3.5 x 1.9     | CE         |
| SDC-15         | 20-35       | 13.8         | 12       | 2.0          | 7.8 x 4.8 x 2.4     | –          |
| SDC-23         | 20-35       | 13.8         | 20       | 2.2          | 7.8 x 4.8 x 2.4     | –          |
| SDC-30         | 20-32       | 13.8         | 30       | 1.5          | 5.9 x 3.5 x 1.9     | CE         |
| SDC-60         | 20-35       | 13.8         | 60       | 2.6          | 7.0 x 3.5 x 3.6     | CE         |





# IDC SERIES DC-DC Isolated Converters



IDC-200A-24

## Design Features

- Advanced switch mode design
- Current limited
- Compact and lightweight
- High efficiency
- Short circuit protected
- ¼" push-on flat pin connectors
- Use with either negative or positive input

## Applications

- Earth moving equipment

Heavy trucks

Buses

Marine

Communications
- Two-way radio

Lighting systems

AM/FM sound systems

Instrumentation

## Compliance

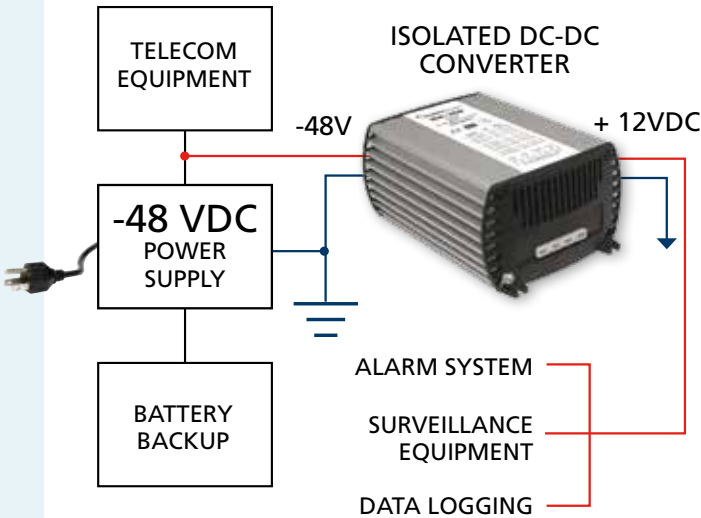
CE

The IDC Series is a complete line of highly efficient DC-DC converters suitable for applications requiring isolation between input and output. 48 VDC output models are available by special order.

## 2 YEAR LIMITED WARRANTY



## DC-DC Isolated IDC Series Ground Reference Isolation



| SPECIFICATIONS |             |              |          |              |                     |
|----------------|-------------|--------------|----------|--------------|---------------------|
| Model          | Input (VDC) | Output (VDC) | Amps (A) | Weight (lbs) | Dimensions (inches) |
| IDC-100A-12    | 9 - 18      | 12.5         | 8        | 1.2          | 5.9 x 3.5 x 1.9     |
| IDC-100B-12    | 20 - 35     | 12.5         | 8        | 1.2          | 5.9 x 3.5 x 1.9     |
| IDC-100C-12    | 30 - 60     | 12.5         | 8        | 1.2          | 5.9 x 3.5 x 1.9     |
| IDC-100D-12    | 60 - 120    | 12.5         | 8        | 1.2          | 5.9 x 3.5 x 1.9     |
| IDC-100A-24    | 9 - 18      | 24.5         | 4        | 1.2          | 5.9 x 3.5 x 1.9     |
| IDC-100C-24    | 30 - 60     | 24.5         | 4        | 1.2          | 5.9 x 3.5 x 1.9     |
| IDC-200A-12    | 9 - 18      | 12.5         | 16       | 1.4          | 6.9 x 3.5 x 1.9     |
| IDC-200B-12    | 20 - 35     | 12.5         | 16       | 1.4          | 6.9 x 3.5 x 1.9     |
| IDC-200C-12    | 30 - 60     | 12.5         | 16       | 1.4          | 6.9 x 3.5 x 1.9     |
| IDC-200D-12    | 60 - 120    | 12.5         | 16       | 1.4          | 6.9 x 3.5 x 1.9     |
| IDC-200A-24    | 9 - 18      | 24.5         | 8        | 1.4          | 6.9 x 3.5 x 1.9     |
| IDC-200B-24    | 20 - 35     | 24.5         | 8        | 1.4          | 6.9 x 3.5 x 1.9     |
| IDC-200C-24    | 30 - 60     | 24.5         | 8        | 1.4          | 6.9 x 3.5 x 1.9     |
| IDC-360A-12    | 9 - 18      | 12.5         | 30       | 3.1          | 7.5 x 5.2 x 3.2     |
| IDC-360B-12    | 20 - 35     | 12.5         | 30       | 3.1          | 7.5 x 5.2 x 3.2     |
| IDC-360C-12    | 30 - 60     | 12.5         | 30       | 3.1          | 7.5 x 5.2 x 3.2     |
| IDC-360D-12    | 60 - 120    | 12.5         | 30       | 3.1          | 7.5 x 5.2 x 3.2     |
| IDC-360A-24    | 9 - 18      | 24.5         | 15       | 3.1          | 7.5 x 5.2 x 3.2     |
| IDC-360B-24    | 20 - 35     | 24.5         | 15       | 3.1          | 7.5 x 5.2 x 3.2     |
| IDC-360C-24    | 30 - 60     | 24.5         | 15       | 3.1          | 7.5 x 5.2 x 3.2     |

# STEP, VTC & IDC SERIES

## DC-DC Step-Up Converters



IDC-360A-24

STEP 7

DC-DC Step-Up converters are designed to increase DC voltage. Available in a variety of models from light-duty to industrial applications.

### Design Features

#### STEP 7, 10 & 20

- Switch mode design, non-isolated
- Over-current, over-voltage, reverse polarity protection
- ¼" push-on flat pin connectors

#### IDC SERIES

- Isolated
- Short circuit protected, current limited
- High efficiency, compact and lightweight

### Applications

Earth moving equipment  
Heavy trucks  
Buses  
Marine

Two-way radios  
DC lighting systems  
AM/FM sound systems

### Compliance CE

2 YEAR LIMITED WARRANTY



### VTC Series

- Switch mode design, non-isolated
- Shock and vibration tolerance
- Current limiting circuit; over voltage crowbar circuit
- Rugged marine grade aluminum case

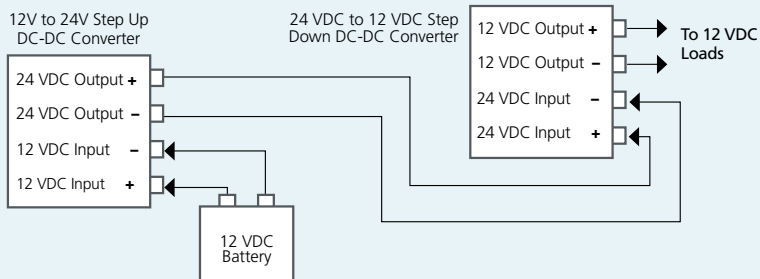


VTC-605

### SPECIFICATIONS

| Model        | Input (VDC) | Output (VDC) | Amps (A) | Weight (lbs) | Dimensions (inches) | Compliance |
|--------------|-------------|--------------|----------|--------------|---------------------|------------|
| STEP 7       | 9 - 18      | 24.6 - 25.7  | 7        | 0.7          | 3.0 x 3.5 x 2.0     | CE         |
| STEP 10      | 9 - 18      | 24.6 - 25.7  | 10       | 0.9          | 5.0 x 3.5 x 1.9     | CE         |
| STEP 20      | 9 - 18      | 24.6 - 25.7  | 20       | 1.8          | 6.0 x 3.7 x 3.6     | CE         |
| IDC-100A-24  | 9 - 18      | 24.5         | 4        | 1.2          | 5.9 x 3.5 x 1.9     | CE         |
| IDC-200A-24  | 9 - 18      | 24.5         | 8        | 1.4          | 6.9 x 3.5 x 1.9     | CE         |
| IDC-360A-24  | 9 - 18      | 24.5         | 15       | 3.1          | 7.5 x 5.2 x 3.2     | CE         |
| VTC305-12-24 | 10.5 - 28   | 24 - 27.5    | 12 - 27  | 4.0          | 9.1 x 7.8 x 2.5     | -          |
| VTC605-12-24 | 10.5 - 28   | 24 - 27.5    | 20 - 45  | 6.0          | 9.1 x 7.8 x 4.3     | -          |

### Step-Up, Step-Down Application Requiring Long DC Path For Distributed Networks



The 12 VDC load is located at a distant location from the 12V source.

# BRM SERIES

## Redundant Switching Power Supplies



SEC-40BRM

### BRM SERIES

19" rackmount power supplies are available with a wide range of input and output voltages. These advanced switch-mode DC power supplies with built-in battery back-up facility produce clean, reliable power and are highly filtered to suppress RFI.

### MPSB MODULES

Open frame SMPS modular power supplies. Used as modules in BRM series or can be used independently. Can be operated in parallel.

### Design Features: BRM Series

- Modular switch mode power supply
- Provides N + 1 redundancy with modules operating in parallel
- Built in DC UPS function with backup battery charging (requires external battery)
- 25 pin D-sub connector for opto-isolated remote monitoring
- Module status LEDs, fault indicator LEDs and fault alarm are standard features on all models
- Voltage/Ampere meter

### Applications

|                             |                     |
|-----------------------------|---------------------|
| Two-way radio base stations | Automotive displays |
| Communication systems       | Marine displays     |
| Security systems            | DC computers        |
| Test equipment              | Lighting systems    |
| GPS receivers               | OEM applications    |

### Compliance

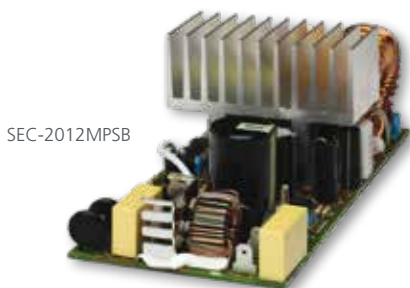
CSA available in Canada

### 2 YEAR LIMITED WARRANTY

### N + 1 Redundancy

Active N + 1 redundancy is a form of resilience that ensures system availability in the event of a module failure. Modules (N) should have at least one backup module (+1) fully operational and sharing the load with the other modules.

When sizing the load, the load should not exceed the current supplied by N; leaving the +1 module as redundancy.



SEC-2012MPSB

### SPECIFICATIONS

| Model          | Input (VAC) | Output (VDC) | Amps (A) | Weight (lbs) | Dimensions (inches) |
|----------------|-------------|--------------|----------|--------------|---------------------|
| SEC-40BRM      | 120         | 13.8         | 40       | 20.5         | 19 x 15.9 x 3.6     |
| SEC-60BRM      | 120         | 13.8         | 60       | 22.0         | 19 x 15.9 x 3.6     |
| SEC-80BRM      | 120         | 13.8         | 80       | 23.5         | 19 x 15.9 x 3.6     |
| SEC-100BRM     | 120         | 13.8         | 100      | 25.0         | 19 x 15.9 x 3.6     |
| SEC-40BRM-230  | 230         | 13.8         | 40       | 20.5         | 19 x 15.9 x 3.6     |
| SEC-100BRM-230 | 230         | 13.8         | 100      | 25.0         | 19 x 15.9 x 3.6     |
| SEC-2450BRM    | 120         | 24.0         | 50       | 25.0         | 19 x 15.9 x 3.6     |
| SEC-4825BRM    | 120         | 48.0         | 25       | 30.0         | 19 x 15.9 x 3.6     |

### SPECIFICATIONS

| Model            | Input (VAC) | Output (VDC) | Amps (A) | Specific to                       |
|------------------|-------------|--------------|----------|-----------------------------------|
| SEC-2012MPSB     | 120         | 14.2         | 20       | SEC-40, 60, 80 & 100 BRM (120VAC) |
| SEC-1024MPSB     | 120         | 28           | 10       | SEC-2450BRM                       |
| SEC-0548MPSB     | 120         | 48           | 5        | SEC-4825BRM                       |
| SEC-2012MPSB-230 | 230         | 14.2         | 20       | SEC-40, 100BRM-230                |

# SEC SERIES

## Switching Power Supplies



SEC-1235M

Switch mode power supplies are designed for minimal power loss. These highly efficient, light weight and compact power supplies are available in a variety of configurations to meet your DC power requirements.

### Design Features

- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Circuit innovations minimize output voltage ripple and RFI
- Input voltage can be set internally to 120 VAC or 230 VAC
- SEC-1235M comes with meter

### Applications

- |                             |                          |
|-----------------------------|--------------------------|
| Two-way radio base stations | Automotive displays      |
| Communication systems       | Marine product displays  |
| Security systems            | DC Computers             |
| Test equipment              | 12 Volt lighting systems |
| GPS receivers               | OEM applications         |

**Compliance** FCC Part 15(B), Class B, RoHS, UL Safety Listed, CE

3 YEAR LIMITED WARRANTY



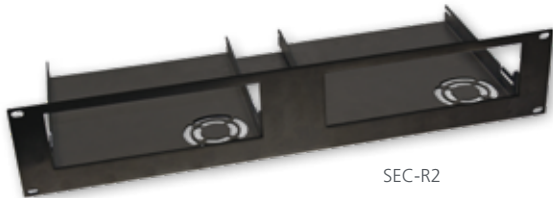


### SEC-R1 & SEC-R2

Rackplates (sold separately) can be used with all Samlex SEC Series power supply models – including the SEC-1223BBM.



SEC-R1



SEC-R2

| SPECIFICATIONS |             |              |          |              |                     |            |
|----------------|-------------|--------------|----------|--------------|---------------------|------------|
| Model          | Input (VAC) | Output (VDC) | Amps (A) | Weight (lbs) | Dimensions (inches) | Compliance |
| SEC-1212       | 120         | 13.8         | 10       | 3.0          | 7.3 x 8.2 x 2.3     | UL, FCC    |
| SEC-1212CE     | 230         | 13.8         | 10       | 3.0          | 7.3 x 8.2 x 2.3     | CE         |
| SEC-1223       | 120         | 13.8         | 23       | 3.5          | 7.3 x 8.2 x 2.3     | UL, FCC    |
| SEC-1223CE     | 230         | 13.8         | 23       | 3.5          | 7.3 x 8.2 x 2.3     | CE         |
| SEC-1235       | 120         | 13.8         | 30       | 3.4          | 7.3 x 8.2 x 2.4     | UL, FCC    |
| SEC-1235M      | 120         | 13.8         | 30       | 3.4          | 7.3 x 8.4 x 2.4     | UL, FCC    |

| SPECIFICATIONS |              |                     |            |
|----------------|--------------|---------------------|------------|
| Model          | Weight (lbs) | Dimensions (inches) | Compliance |
| SEC-R1         | 2.6          | 19 x 3.5 x 7.75     | RoHS       |
| SEC-R2         | 3.2          | 19 x 3.5 x 7.75     | RoHS       |



SEC-R2 with Power Supply and Radio



# BBM SERIES

## Switching Power Supplies with Battery Backup Circuit



SEC-1223BBM

The SEC-1223BBM combines the reliability of the classic SEC-1223 power supply with the reassurance of the BBM-1225 battery backup module. This combined unit automatically provides uninterrupted DC power from an external backup battery to your critical load in the event of an AC power outage. Once AC power is restored, the SEC-1223BBM will continue to seamlessly supply DC power to the load while providing a current limited charge to the backup battery.

### Design Features

- Advanced switch-mode technology
- Reliable uninterruptible DC power source in conjunction with external Lead Acid Battery
- Efficient, compact and lightweight
- Units available preset to 120 or 230 VAC
- Protected against short circuit, overload, over voltage and over temperature
- Cooling by temperature controlled fan improves efficiency and prolongs life of the fan

### Applications

- |                             |                          |
|-----------------------------|--------------------------|
| Two-way radio base stations | Automotive displays      |
| Communication systems       | Marine product displays  |
| Security systems            | DC Computers             |
| Test equipment              | 12 Volt lighting systems |
| GPS receivers               | OEM applications         |

**Compliance** FCC Part 15(B), Class B, UL Safety Listed, CE

3 YEAR LIMITED WARRANTY



### Battery Backup Modules

Connect these modules to an AC-DC power supply to provide battery back-up power to your DC equipment in the event of an AC power failure. On return of AC power, the module regulates output current and voltage to recharge the batteries, as well as supply the DC loads.



| SPECIFICATIONS |             |              |          |              |                     |            |
|----------------|-------------|--------------|----------|--------------|---------------------|------------|
| Model          | Input (VAC) | Output (VDC) | Amps (A) | Weight (lbs) | Dimensions (inches) | Compliance |
| SEC-1223BBM    | 120         | 13.8         | 23       | 3.4          | 7.0 x 9.5 x 2.4     | UL, FCC    |
| SEC-1223BBM-CE | 230         | 13.8         | 23       | 3.4          | 7.0 x 9.5 x 2.4     | CE         |

| SPECIFICATIONS |               |                 |                       |              |                     |
|----------------|---------------|-----------------|-----------------------|--------------|---------------------|
| Model          | Input Voltage | Output Voltage  | Output Current (Amps) | Weight (lbs) | Dimensions (inches) |
| BBM-1225       | ≤ 28 VDC      | 0.5 VDC < input | ≤ 25 A                | 0.7          | 3.9 x 4.5 x 1.9     |
| BBM-12100      | ≤ 28 VDC      | 0.4 VDC < input | ≤ 100 A               | 2.2          | 5.9 x 7.4 x 2.6     |



Desktop power supply and radio cabinet combinations are available (see page 35).

# BASE STATION COMBINATIONS

## Cabinets & Power Supplies



Cabinet & Power Supply Combination

Integrate your mobile radio with Samlex SEC Series power supplies to create an attractive and functional desktop base station unit.

Cabinets are custom fit to specific land mobile radio models. Please see reference chart for exact fits.

Cabinets are available separately or packaged in combination with an SEC-1212 or SEC-1223 power supply.

All SEC Series desktop power supplies, including BBM Series can be used with any of the radio cabinets interchangeably.

### 3 YEAR LIMITED WARRANTY



SEC-1212



SEC-1223



SEC-1223BBM



SEC-1235



SEC-1235M



Cabinet Only



Cabinet & SEC-1212  
Power Supply Combination  
(Radio not included)



Cabinet & SEC-1223  
Power Supply Combination  
(Radio not included)



Custom Models

**Samlex is always looking to expand our radio cabinet offering to accommodate new and popular radios.**

Let us know if you are getting requests for a Radio Cabinet we don't currently offer!

# BASE STATION COMBINATIONS

## Cabinets & Power Supplies

|   | Cabinet Only | Cabinet & SEC-1212  | Cabinet & SEC-1223  |
|---|--------------|---------------------|---------------------|
| Motorola Radio Models   |              |                     |                     |
| M100, M120, GM300   | 12010-M      | –                   | SEC-1223-M/GM       |
| SM50, SM120, M1225, GTX, CM200, CM300, CM200D, CM300D, PM400, XPR2500, DM1600   | 12060-M      | SEC-1212-SM         | SEC-1223-SM         |
| CDM750, CDM1250, CDM1550  | 12220-M      | SEC-1212-CDM        | SEC-1223-CDM        |
| MOTOTRBO XPR4550, XPR4350, XPR4380, XPR6150, DGM6100  | 12337-M      | SEC-1212-MOTOTRBO   | SEC-1223-MOTOTRBO   |
| MOTOTRBO XPR5000 Series, DGM 5000, 5500, 8000, 8500, DM4000   | 12430-M      | SEC-1212-MT-XPR5000 | SEC-1223-MT-XPR5000 |
| XTL 1500, XTL 2500 Mid Power, XTL 5000 Mid Power, APX 6500 with 05 Control Head Mid Power   | 12345-M      | SEC-1212-XTL-MID    | SEC-1223-XTL-MID    |
| Vertex Radio Models   |              |                     |                     |
| VX2000, VX2500, VX3000, VX3200  | 12070-V      | SEC-1212-VX         | SEC-1223-VX         |
| VX4000, VX5000, VX5500/6000 Low Band  | 12210-V      | SEC-1212-VX2        | SEC-1223-VX2        |
| VX4100/4200 Series  | 12260-V      | SEC-1212-VX3        | SEC-1223-VX3        |
| VX2200, VX2100, EVX-5300/5400, VX4500, VX4600   | 12280-V      | SEC-1212-VX4        | SEC-1223-VX4        |
| VXD7200   | 12337-M      | SEC-1212-MOTOTRBO   | SEC-1223-MOTOTRBO   |
| Kenwood Radio Models  |              |                     |                     |
| TK-880 TK-760(G), TK-760H, TK-762G, TK-840, TK-860G, TK-862G, TK-780, TK-840, TK-940, TK-980, TK-981, TK-863G   | 12090-K      | SEC-1212-TK2        | SEC-1223-TK2        |
| TK-6110   | 12270-K      | –                   | SEC-1223-TK4        |
| NX-5700, NX-5800, NX-5900, TK-730, TK-5830, TK-5930, TK-7160H, TK-8160H   | 12450-K      | –                   | SEC-1223-NX         |
| TK-7160, TK-8160  | 12250-K      | SEC-1212-TK3        | SEC-1223-TK3        |
| TK-7102, TK-7180, TK-8180, TK-7360, TK-8360, TK-7302, TK-8302, NX-700, NX-800, NX-740, NX-840, NX-720, NX-820, NX-920, NX-900, NX-901, TK-D740, TK-D840,TM-281A, TK-8102 (these models also fit with 12450-K) |              |                     |                     |
| Hytera Radio Models   |              |                     |                     |
| MD78X Series  | 12440-H      | –                   | SEC-1223-HYT        |
| Harris (M/A Com) Radio Models   |              |                     |                     |
| M7300, M5300, XG-75M  | 12400-H      | –                   | SEC-1223-M7300      |
| M7100   | 12170-H      | –                   | SEC-1223-M7100      |
| 500M/MDX  | 12180-H      | –                   | SEC-1223-500M       |
| HDM150  | 12440-H      | –                   | SEC-1223-HYT        |
| XG-25M, XG-75M, XG-100M, M7300, M5300   | 12480-H      | –                   | SEC-1223-XG         |
| Icom Radio Models   |              |                     |                     |
| IC-A110, IC-F1010/F2010, IC-F1610/F2610   | 12110-I      | SEC-1212-IC1        | SEC-1223-IC1        |
| IC-F310, 320, 410, 420, 510, 520, 610, 620  | 12120-I      | SEC-1212-IC2        | SEC-1223-IC2        |
| IC-F110S/F210S, IC-F110/F210, IC-F121S/F221S, IC-F121/F221, F5121, F6121, F5011, F6011, F6021, IC-2820H, ID-880H-05   | 12200-I      | SEC-1212-IC3        | SEC-1223-IC3        |
| IC-F5061/IC-F6061, IC-F5063/IC-F6063, A120  | 12333-I      | –                   | SEC-1223-IC4        |
| Yaesu Radio Models  |              |                     |                     |
| FT-2900   | 12333-I      | –                   | –                   |

**NOTE:** Radios not included. If your desired radio is not listed, contact Samlex.



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