Our Mission
To develop enduring relationships with our customers by providing innovative power conversion products supported by the best customer service in the industry.

Samlex America Inc. is an experienced manufacturer and supplier of Pure Sine Wave Inverters, Modified Sine Wave Inverters, DC-DC Converters, Battery Chargers, Power Supplies, Off-grid Solar Products and related accessories.

Incorporated in 1991, Samlex currently serves over 90 countries worldwide in various markets such as Telecommunications, Fleet, RV & Marine, Alternative Energy, Government, Natural Resources, Retail and OEM/ODM Services.

Samlex products are ISO9000 certified and backed by a minimum 2 year warranty. Innovative product design, strict quality control, as well as responsible before and after sales service, provides customers with superior power conversion products that they can rely on.

With over 250 stocking SKUs, Samlex is the complete source for commercial, industrial and consumer power conversion products.
### Modified Sine Wave Inverters

#### PSE Series

These high efficiency modified sine wave DC-AC inverters convert 12VDC or 24VDC to 120VAC, 60Hz. Features include overload, over-temperature, low input and high input voltage protection. The front-end LED display indicates battery voltage and output power levels.

<table>
<thead>
<tr>
<th>DC-AC Modified Sine Inverters - PSE Series</th>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (VAC)</th>
<th>Output Power (W)</th>
<th>Surge (W)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Outlets</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSE-12125A</td>
<td>12</td>
<td>120</td>
<td>2500</td>
<td>6.8</td>
<td>9.45 x 13.19 x 3.35</td>
<td>2</td>
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<tr>
<td>PSE-12175A</td>
<td>12</td>
<td>120</td>
<td>2750</td>
<td>16.2</td>
<td>8.07 x 19.49 x 6.30</td>
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<tr>
<td>PSE-24125A</td>
<td>24</td>
<td>120</td>
<td>2500</td>
<td>6.8</td>
<td>9.45 x 13.19 x 3.35</td>
<td>2</td>
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<tr>
<td>PSE-24175A*</td>
<td>24</td>
<td>120</td>
<td>2750</td>
<td>16.2</td>
<td>8.07 x 19.49 x 6.30</td>
<td>1</td>
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<tr>
<td>RC-15 Remote Control</td>
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<td></td>
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</tr>
</tbody>
</table>

* Hard-wireable

#### SAM Series

Durable construction SAM Series modified sine wave inverters provide reliable power at an affordable price.

<table>
<thead>
<tr>
<th>DC-AC Modified Sine Inverters - SAM Series</th>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (VAC)</th>
<th>Output Power (W)</th>
<th>Surge (W)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Outlets</th>
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<tbody>
<tr>
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<td>100</td>
<td>0.30</td>
<td>2.36 x 5.08 x 1.44</td>
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<td>250</td>
<td>0.92</td>
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<td>SAM-450-12*†</td>
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<td>115</td>
<td>450</td>
<td>1.30</td>
<td>6.1 x 6.0 x 2.2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAM-800-12*†</td>
<td>12</td>
<td>115</td>
<td>800</td>
<td>2.91</td>
<td>7.0 x 8.6 x 2.4</td>
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<td>SAM-1000-12</td>
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<td>115</td>
<td>1000</td>
<td>3.70</td>
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<td>115</td>
<td>1500</td>
<td>7.10</td>
<td>7.95 x 11.4 x 3.3</td>
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<td>SAM-2000-12</td>
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<td>115</td>
<td>2000</td>
<td>8.50</td>
<td>7.95 x 13.5 x 3.3</td>
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<td>SAM-3000-12</td>
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<td>115</td>
<td>3000</td>
<td>11.80</td>
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<td>SAM-450-12*†</td>
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<td>230</td>
<td>450</td>
<td>1.30</td>
<td>6.0 x 6.1 x 1.80</td>
<td>1</td>
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</table>

* Comes with hardwire connection to 12V socket in your car, boat, truck or RV. Comes with AC outlet and a USB charging port. Now includes 2.1 Amp USB Charging Port to accommodate new smart phones, laptops and tablets.

**APPLICATIONS**
- Mobile offices
- Field work
- Boats
- Construction sites
- Recreational vehicles
- Solar power systems
- Emergency backup power
- Service vehicles
- Mobile offices
- Recreational vehicles, camping

**Design Features**
- Compact design
- 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 a remote ON/OFF control

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

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**PSE-12125A**

Easy to install, high efficiency modified sine wave inverter converts 12VDC or 24VDC to 120VAC, 60Hz. Features include overload, over-temperature, low input and high input voltage protection. The front-end LED display indicates battery voltage and output power levels.

**Applications**
- Mobile offices
- Field work
- Boats
- Construction sites
- Recreational vehicles
- Solar power systems
- Camping
- Telecommunication

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

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

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**SAM Series**

Easily plugs into any 12V socket in your car, boat, truck, or RV. Comes with one AC outlet and a USB charging port. Now includes 2.1 Amp USB Charging Port to accommodate new smart phones, laptops and tablets.

**Applications**
- Mobile offices
- Field work/construction sites
- Service vehicles
- Home electronics
- TV, DVD, gaming consoles
- Tools & appliances

**Design Features**
- Compact design
- 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 a remote ON/OFF control

**Compliance**
- ETL Safety Listed to UL Standard 458
Modified Sine Wave Inverter/Charger
SAM-1500C-12

This all-in-one robust unit integrates a 1500W Modified Sine Wave Inverter, 30A Transfer Switch and a Two Stage 12V, 15A Battery Charger.

**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
Remote Shelters
12V Battery Charging
RV's, Trucks & Utility Vehicles

**2 Year Limited Warranty**

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**Pure Sine Wave Inverters**
SSW Series

**Cost effective Pure Sine Wave power. Take the comforts of home on the road.**

**DC-AC Modified Sine Inverter/Charger - SAM-1500C-12**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (VAC)</th>
<th>Output Power (W)</th>
<th>Surge (W)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Outlets</th>
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<td>115</td>
<td>1500</td>
<td>3000</td>
<td>8.82</td>
<td>7.95 x 13.58 x 3.30</td>
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</table>

**No Interruption of 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.

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**Pure Sine Wave Inverters**
SSW Series

**Cost effective Pure Sine Wave power. Take the comforts of home on the road.**

**DC-AC Pure Sine Wave Inverters - SSW Series**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (VAC)</th>
<th>Output Power (W)</th>
<th>Surge (W)</th>
<th>Weight (lbs)</th>
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<th>Outlets</th>
<th>USB</th>
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<td>115</td>
<td>350</td>
<td>700</td>
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<td>7.87 x 6.10 x 2.24</td>
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<tr>
<td>SSW-600-12A</td>
<td>12</td>
<td>115</td>
<td>600</td>
<td>1200</td>
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<td>9.06 x 6.10 x 2.24</td>
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<td>Yes</td>
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<td>SSW-1000-12A</td>
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<td>115</td>
<td>1000</td>
<td>2000</td>
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<td>10.43 x 8.74 x 3.46</td>
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<td>115</td>
<td>1500</td>
<td>3000</td>
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</table>

**Applications**
- Home electronics: TV, DVD, gaming consoles
- Computers, printers

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

**2 Year Limited Warranty**

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**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 12 for more details.

**DC-2000-KIT**

**No Interruption of 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.

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**LCD 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
**Pure Sine Wave Inverters**

**PST SERIES**

Proven extremely reliable in the field for over 10 years. PST’s high frequency design provides clean and reliable AC power identical to household electricity.

### DC-AC Pure Sine Wave Inverters - PST Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (VAC)</th>
<th>Output Power (W)</th>
<th>Surge (W)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Outlets</th>
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<tr>
<td>PST-120-12</td>
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<td>PST-150-12</td>
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<td>150</td>
<td>300</td>
<td>2.8</td>
<td>8.31 x 6.1 x 2.58</td>
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<td>PST-300-12</td>
<td>12</td>
<td>300</td>
<td>500</td>
<td>3.46</td>
<td>9.69 x 5.76 x 2.58</td>
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<tr>
<td>PST-600-12</td>
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<td>600</td>
<td>1000</td>
<td>5.9</td>
<td>10.87 x 9.47 x 3.23</td>
<td>2</td>
<td>2</td>
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<tr>
<td>PST-1000-12</td>
<td>12</td>
<td>1000</td>
<td>2000</td>
<td>8.8</td>
<td>15.83 x 9.47 x 3.23</td>
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<td>PST-1500-12</td>
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<td>1500</td>
<td>3000</td>
<td>15.6</td>
<td>18.43 x 10.35 x 4.16</td>
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<td>PST-2000-12</td>
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<td>2000</td>
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<td>17.97 x 10.35 x 5.71</td>
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<td>6000</td>
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<td>1000</td>
<td>5.9</td>
<td>10.87 x 9.47 x 3.23</td>
<td>2</td>
<td>2</td>
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<tr>
<td>PST-1000-24</td>
<td>24</td>
<td>1000</td>
<td>2000</td>
<td>8.8</td>
<td>15.83 x 9.47 x 3.23</td>
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<td>PST-1500-24</td>
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<td>1500</td>
<td>3000</td>
<td>15.6</td>
<td>18.43 x 10.35 x 4.16</td>
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<tr>
<td>PST-2000-24</td>
<td>24</td>
<td>2000</td>
<td>4000</td>
<td>21.6</td>
<td>17.97 x 10.35 x 5.71</td>
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<td>PST-3000-24</td>
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<td>3000</td>
<td>6000</td>
<td>29.8</td>
<td>20.31 x 11.41 x 6.7</td>
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<tr>
<td>PST-1500-48</td>
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<td>3000</td>
<td>15.6</td>
<td>18.43 x 10.35 x 4.16</td>
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</tbody>
</table>

**Design Features**

- Quiet Operation – temperature controlled fan reduces energy consumption
- Extremely low interference with other devices
- GFCI protected outlets
- 1500, 2000 and 3000W models can be hard-wired
- 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
- Optional remote controls available for select models
- 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
- TV, DVD, gaming consoles
- Cordless chargers
- Tools and appliances
- Recreational vehicles, camping
- Computer & printers
- Automotive & marine

**Compliance**

- FCC Approved; ETL Safety Listed to UL Standard 458

**2 Year Limited Warranty**

**Optional Remote Controls**

**RC-15A**
- For use with PST-600 & PST-1000
- Remote push button ON/OFF
- LED indicators for overload, over temperature and power
- 15’ of cable

**RC-200**
- For use with PST-1500 & PST-2000
- LCD indicates AC volts, AC amps, frequency, power (watts) and power factor
- 15’ of cable

**RC-300**
- For use with PST-3000
- LCD indicates AC volts, AC amps, frequency, power (watts) and power factor
- 25’ of cable

**NEW**

**3000 Watt Models PST-3000-12, PST-3000-24**

- Wide operating temperature range
- Hardwire capable
- 2x surge

**3000 Watt Model PST-3000-12, PST-3000-24**

- Wide operating temperature range
- Hardwire capable
- 2x surge
The PST-E Series of Pure Sine Inverters converts 12 or 24 VDC to 230 VAC, 50 Hz. Models range from 300 to 2000 Watts and feature Schuko type outlets. 300W models come with a 12V power plug while larger models include pin-type battery cable lugs.

The robust design of the PSTs makes them suitable for heavy duty loads, long periods of continuous use and for emergency back-up power.

**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: 10.5 to 16.5 VDC
- Universal Protection Circuit: low voltage, over voltage, over temperature, over load and short circuit

**Applications**
- Solar power systems
- Emergency backup power
- Mobile offices
- Cordless chargers
- Recreational vehicles, camping
- Automotive & marine

**Compliance**
CE

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**DC-AC Pure Sine Wave Inverters - PST Series**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (VAC)</th>
<th>Output Power (W)</th>
<th>Surge (W)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Outlets</th>
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<tbody>
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<td>PST-305-12E</td>
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<td>300</td>
<td>500</td>
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<td>8.5 x 5.8 x 2.6</td>
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<td>PST-605-12E</td>
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<td>600</td>
<td>1000</td>
<td>5.4</td>
<td>11.1 x 9.5 x 3.2</td>
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<td>1000</td>
<td>2000</td>
<td>8.8</td>
<td>15.7 x 9.5 x 3.2</td>
<td>1</td>
</tr>
</tbody>
</table>

**Optional Remote Control RC-15**
For use with 600, 1000, 1500 and 2000 Watt Models:
- ON/OFF Button
- 15’ of cable

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**SA Series**

SA Series high efficiency microprocessor controlled DC-AC inverters are capable of driving highly reactive and capacitive loads, these industrial grade inverters are ideal for heavy duty applications.

**Design Features**
- Isolated input and output
- Advanced microprocessor design
- Protections: overload, short circuit, reverse polarity, over/under input voltage, over temperature

**Applications**
- Service vehicles
- Mobile offices
- Boats
- Recreational vehicles, Camping
- Telecommunication
- Automotive
- Field work/construction sites
- Solar power systems
- Emergency backup power
- Home electronics: TV, DVD, gaming consoles, stereo equipment

**Compliance**
Safety Listed to UL 458 (All models except SA-2000K & SA-3000K)
FCC Part 15B, Class B

**2 Year Limited Warranty**

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**DC-AC Pure Sine Wave Inverters - SA Series**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (VAC)</th>
<th>Output Power (W)</th>
<th>Surge (W)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
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<td>12</td>
<td>110</td>
<td>300</td>
<td>400</td>
<td>7.7</td>
<td>9.5 x 6.0 x 3.0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-600R-112</td>
<td>12</td>
<td>120</td>
<td>600</td>
<td>800</td>
<td>5.4</td>
<td>12.25 x 7.0 x 2.75</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-1000K-112</td>
<td>12</td>
<td>120</td>
<td>1000</td>
<td>2000</td>
<td>8.8</td>
<td>15.5 x 7.0 x 3.5</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-2000K-112</td>
<td>12</td>
<td>120</td>
<td>2000</td>
<td>4000</td>
<td>15.5</td>
<td>15.5 x 8.25 x 6.25</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-3000K-112</td>
<td>12</td>
<td>120</td>
<td>3000</td>
<td>6000</td>
<td>22.0</td>
<td>17.25 x 8.25 x 6.75</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-150-24</td>
<td>12</td>
<td>110</td>
<td>150</td>
<td>200</td>
<td>5.4</td>
<td>8.5 x 5.25 x 2.75</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-300-24</td>
<td>12</td>
<td>110</td>
<td>300</td>
<td>400</td>
<td>7.7</td>
<td>9.5 x 6.0 x 3.0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-600R-24</td>
<td>12</td>
<td>120</td>
<td>600</td>
<td>800</td>
<td>5.4</td>
<td>12.25 x 7.0 x 2.75</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-1000K-24</td>
<td>12</td>
<td>120</td>
<td>1000</td>
<td>2000</td>
<td>8.8</td>
<td>15.5 x 7.0 x 3.5</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-2000K-24</td>
<td>12</td>
<td>120</td>
<td>2000</td>
<td>4000</td>
<td>15.5</td>
<td>15.5 x 8.25 x 6.25</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>SA-3000K-24</td>
<td>12</td>
<td>120</td>
<td>3000</td>
<td>6000</td>
<td>22.0</td>
<td>17.25 x 8.25 x 6.75</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

---

**SA-3000K Output AC power is available by means of hard-wire connection or NEMA5-20R receptacles.**

**Optional Remote Controls**

---

**SA Series high efficiency microprocessor controlled DC-AC inverters are capable of driving highly reactive and capacitive loads, these industrial grade inverters are ideal for heavy duty applications.**
<table>
<thead>
<tr>
<th>DC-AC Pure Sine Wave Inverters - COTEK S &amp; SK Series</th>
<th>DC-AC Pure Sine Wave Inverters - Rackmount Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td><strong>Input (VDC)</strong></td>
</tr>
<tr>
<td>S600-148</td>
<td>48</td>
</tr>
<tr>
<td>SK1000-148</td>
<td>48</td>
</tr>
<tr>
<td>S1500-148</td>
<td>48</td>
</tr>
<tr>
<td>SK3000-148</td>
<td>48</td>
</tr>
</tbody>
</table>

**Inverter Remote Controls: COTEK S & SK SERIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-R5</td>
<td>Remote Control for use with S1500 Series Inverters. Comes with 10’ cable.</td>
</tr>
<tr>
<td>S-R6-12</td>
<td>Remote Control for use with any SK1000-, SK2000- or SK3000- 112 or 212 inverter. Comes with 10’ cable.</td>
</tr>
<tr>
<td>S-R6-24</td>
<td>Remote Control for use with any SK1000-, SK2000- or SK3000-124 or 224 inverter. Comes with 10’ cable.</td>
</tr>
<tr>
<td>S-R8</td>
<td>Remote Control for use with SK1000, SK2000 &amp; SK3000 inverters. Comes with 10’ cable.</td>
</tr>
</tbody>
</table>

**APPLICATIONS**

- Service vehicles
- Mobile offices
- Boats
- Recreational vehicles
- Camping
- Telecommunication

**COMPLIANCE**

- FCC Part 15(B), Class A
- CE
- UL60950-1

**DESIGN FEATURES**

- Pure sine wave output (THD < 3%)
- Switch selectable output frequency: 50/60Hz
- Power save mode (700W models and higher)
- Advanced micro-controller
- Protections: overload, short circuit, leakage, low and high DC input voltages, high temperature, reverse polarity

**APPLICATIONS**

- Telecommunication
- UPS system
- Emergency backup power

**COMPLIANCE**

- FCC Part 15(B), Class B; UL Safety Listed to UL60950-1; CE

**DESIGN FEATURES**

- Advanced Digital Signal Processing
- Space saving 19” 1U height
- LCD/LED display and audible alarms
- Built-in 15 Amps transfer relay and 12 Amps AC input circuit breaker
- User selectable frequency and output voltage
- Load/temperature controlled cooling fans
- Protections: overdose, overload, short circuit, low and high DC input voltages; high temperature; reverse polarity
- Pure sine wave output (THD < 2%)
**Inverter/Chargers**

**EVO™ SERIES**

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 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
- Adaptive algorithm used in Battery Charging to assess battery condition and customize charging to extend battery life
- Zero transfer time switching from inverter to grid, synchronized transfer at zero crossing
- 3X Surge power with Power Boost (large power overload allowances for long periods of time)
- Conformally coated circuit boards
- Wide Operating Temperature Range -20 to 60°C/-4 to 140°F

**APPLICATIONS**

- Boats
- Recreational vehicles
- Trucks/Specialty vehicles
- Alternative energy
- Emergency backup power

**COMPLIANCE**

Intertek-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 B

**Design Features**

- Very wide operating temperature of -50°C to 105°C
- High strand count, annealed copper conductors for high flexibility and additional protection against corrosion
- Has layers of insulation that provide resistance to abrasion, oils, acids and heat

**Fuses and Circuit Protection**

- 100A, 200A and 300A Marine Rated Battery Fuses are provided with DC-1000-KIT, DC-2000-KIT and DC-3500-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.

**Applications**

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

**DC Inverter Installation Kits, Fuses & Circuit Protection**

<table>
<thead>
<tr>
<th>Kit</th>
<th>Inverter / Description</th>
<th>Fuse Size</th>
<th>Cable Gauge</th>
<th>Cable Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-1000-KIT</td>
<td>12V 600-1000W 24V 1200-2500W 48V 2400-4000W</td>
<td>100 Amps</td>
<td>AWG #4</td>
<td>2 x 10'</td>
</tr>
<tr>
<td>DC-2000-KIT</td>
<td>12V 1000-1700W 24V 2000-3400W 48V 4000-6800W EVO-2224</td>
<td>200 Amps</td>
<td>AWG #2</td>
<td>2 x 10'</td>
</tr>
<tr>
<td>DC-2500-KIT</td>
<td>12V 1700-2500W 24V 3400-5000W 48V 6800-10000W</td>
<td>300 Amps</td>
<td>AWG #20</td>
<td>2 x 10'</td>
</tr>
<tr>
<td>DC-3500-KIT</td>
<td>12V 2500-3500W 24V 5600-7000W 48V 10000-14000W EVO-2212, EVO-4024</td>
<td>400 Amps</td>
<td>AWG #40</td>
<td>2 x 10'</td>
</tr>
</tbody>
</table>

**Pure Sine Wave Inverter/Chargers - EVO™ Series**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (W)</th>
<th>Battery Charger (A)</th>
<th>Transfer (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVO-2212</td>
<td>12</td>
<td>120</td>
<td>2200</td>
<td>40</td>
<td>59</td>
<td>12.79 x 16.77 x 8.15</td>
</tr>
<tr>
<td>EVO-3012</td>
<td>12</td>
<td>120</td>
<td>3000</td>
<td>70</td>
<td>64</td>
<td>12.79 x 16.77 x 8.15</td>
</tr>
<tr>
<td>EVO-2224</td>
<td>24</td>
<td>120</td>
<td>2200</td>
<td>40</td>
<td>57</td>
<td>12.79 x 16.77 x 8.15</td>
</tr>
<tr>
<td>EVO-4024</td>
<td>24</td>
<td>120</td>
<td>4000</td>
<td>110</td>
<td>70</td>
<td>12.79 x 16.77 x 8.15</td>
</tr>
<tr>
<td>EVO-RC</td>
<td>Optional Remote Control</td>
<td>0.4</td>
<td>5.6 x 4.5 x 1.4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

**Remote Control**

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

**Plug & Power**

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.

**Design Features**

- Has layers of insulation that provide resistance to abrasion, oils, acids and heat
- Designed for protection against damage due to short circuit conditions in battery cables.

**Applications**

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

**2 Year Limited Warranty**
Transfer Switch
STS-30

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

**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

**2 YEAR LIMITED WARRANTY**

Battery Chargers
SEC-UL & BP SERIES

The ALL NEW SEC-UL Series Battery Chargers are fully automatic and based on Samlex’s industry proven SEC design that professionals have depended on for years. Packed with added features and certified to meet stringent UL safety standards, the SEC UL Series provides reliable charging and trouble free battery maintenance.

**SEC 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 Circuit (to prevent under/overcharging of battery if temperature varies extensively) – SEC-1250UL, SEC-1280UL, SEC-2425UL and SEC-2440UL

**APPLICATIONS**
- Automotive
- 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

**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 / Generator.

Back up power
Is provided by inverter powered from batteries charged by battery charger.

**Transfer Switch**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS-30</td>
<td>Automatic Transfer Switch, 30A</td>
<td>4.4 lbs</td>
<td>9.0” x 8.4” x 3.2”</td>
</tr>
</tbody>
</table>

Configuration of UPS System

**Battery Chargers - Automatic**

<table>
<thead>
<tr>
<th>Model</th>
<th>VDC</th>
<th>Amps</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Optional Remote</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC-1215UL</td>
<td>12</td>
<td>15</td>
<td>4.8</td>
<td>8.5 x 8.4 x 3.3</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-1230UL</td>
<td>12</td>
<td>30</td>
<td>6.4</td>
<td>10.8 x 8.4 x 3.3</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-1250UL*</td>
<td>12</td>
<td>50</td>
<td>11.0</td>
<td>13.0 x 9.6 x 3.82</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-1280UL*</td>
<td>12</td>
<td>80</td>
<td>12.1</td>
<td>15.0 x 9.6 x 3.82</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-2415UL</td>
<td>24</td>
<td>15</td>
<td>6.4</td>
<td>10.8 x 8.4 x 3.3</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-2425UL*</td>
<td>24</td>
<td>25</td>
<td>11.0</td>
<td>13.0 x 9.6 x 3.82</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-2440UL*</td>
<td>24</td>
<td>40</td>
<td>12.1</td>
<td>15.0 x 9.6 x 3.82</td>
<td>900-RC</td>
</tr>
</tbody>
</table>

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. Optional for:
- SEC-1250UL
- SEC-1280UL
- SEC-2425UL
- SEC-2440UL

**Battery Chargers - Micro-processor controlled**

<table>
<thead>
<tr>
<th>Model</th>
<th>VDC</th>
<th>Amps</th>
<th>Weight (lbs)</th>
<th>Optional Remote</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP-1210</td>
<td>12</td>
<td>10</td>
<td>2.2</td>
<td>8.3 x 3.3 x 2.0</td>
</tr>
</tbody>
</table>

* Includes temperature sensor to prevent under/over charging of battery if temperature varies extensively.
Battery Accessories

**ISOlATOR, GUARDS & MONITORS**

**Automatic Charge Isolator**
ACR-160 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. Also known as a Battery Separator, Isolator, or Automatic Charging Relay.

**Battery Guards**
The Battery Guard prevents excessive battery discharge (which can damage the battery) and protects electronic appliances against over voltage.

**Battery Monitors**
12VDC or 24VDC programmable monitor that displays battery state of charge through various LED patterns.

<table>
<thead>
<tr>
<th>Battery Accessories</th>
<th>Amps</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR-160 Automatic Charge Isolator</td>
<td>160</td>
<td>1.0</td>
<td>4.2 x 2.9 x 2.3</td>
</tr>
<tr>
<td>BG-40 Battery Guard</td>
<td>40</td>
<td>0.5</td>
<td>3.2 x 2.6 x 1.4</td>
</tr>
<tr>
<td>BG-60 Battery Guard</td>
<td>60</td>
<td>0.5</td>
<td>3.2 x 2.6 x 1.4</td>
</tr>
<tr>
<td>BG-200 Battery Guard</td>
<td>200</td>
<td>0.5</td>
<td>4.5 x 4.7 x 2.4</td>
</tr>
<tr>
<td>BW-01 Battery Monitor</td>
<td>-</td>
<td>0.125</td>
<td>2.6 x 2.6 x 0.8</td>
</tr>
<tr>
<td>BW-03 Battery Monitor</td>
<td>-</td>
<td>0.2</td>
<td>2.4 x 2.4 x 0.8</td>
</tr>
</tbody>
</table>

**Design Features**
- Micro-processor controlled
- Easy to install, potted, waterproof, sealed unit
- Very low standby current
- Automatic detection of 12 or 24 VDC systems
- 160A continuous rated, 480A peak (250 msec)
- Monitoring of relay activation by external LED
- Over voltage protection

**Applications**
Marine, Automotive, Recreational & Utility Vehicles

**Compliance**
RoHS, CE

**2 Year Limited Warranty**

---

**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 500W in a 12V system, or up to 1000W in a 24V system under specified conditions.

<table>
<thead>
<tr>
<th>SCC-30AB Solar Charge Controller</th>
<th>Input (VDC)</th>
<th>Amps (a)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCC-30AB 12/24</td>
<td>30</td>
<td>0.8</td>
<td>7.48 x 6.25 x 1.38</td>
<td></td>
</tr>
<tr>
<td>DC-BTS-A-C Battery Temperature Sensor</td>
<td>0.4</td>
<td>33.0</td>
<td>0.1 x 0.1</td>
<td></td>
</tr>
</tbody>
</table>

**Design Features (PWM, Series Type)**
- 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 12VDC or 24VDC
- Flush mount design

**Applications**
Recreational vehicles, Field work, Service vehicles, Rural electrification, Boats, Solar home systems, Off-grid & mobile solar systems

**5 Year Limited Warranty**

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**Battery Temperature Sensor**
Temperature compensated charging ensures that batteries are optimally charged under wide temperature variations.
For use specifically with SCC-30AB Charge Controller.

**Battery Temperature Sensor**
Sold separately.

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**ACR-160: Connection Diagram**

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**SCC-30AB: Connection Diagram**

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**SCC-30AB Solar Charge Controller wall mounted in an RV.**
Solar Charge Controllers

**SMC & SCC SERIES**

**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

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**5 YEAR LIMITED WARRANTY**

---

**Solar Charge Controllers**

**STECA**

**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, water and dust content. Suitable for outdoor installation (IP65).

**MPPT-2010** – Maximum power point tracking for module voltages higher than battery voltage.

**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 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.

**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.

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**2 YEAR LIMITED WARRANTY**

---

**Solar Charge Controllers**

**SCC-1208L**
- Sealed, splash proof weather resistant design (Ingress Protection Rating IP65)
- Automatically turns ON lights when dark and turns OFF during the day
- Wide operating temperature range of -40°C to +60°C
- Reverse current blocking prevents night-time battery discharge and lowers power loss
- 3 stage charging (bulk, absorption, float)
- Protection: overload, over-temperature, battery under/over voltage and reverse polarity

**APPLICATIONS**
- Off-grid and mobile solar systems
- Rural electrification
- Monitoring systems for the oil & gas industry
- Marine & RV
- Water pumping systems


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**Now available by Special Order:**

**MPPT-6000**

**TAROM 4545**

**Power Tarom Series**

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**Solar Charge Controllers**

**STEC a**

**SOLSUM SERIES** – Economical, PWM Series type controller. Wide operating temperature range.

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**2 YEAR LIMITED WARRANTY**

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Solar Accessories

- High efficiency Solar Panel
- 30A Charge Controller – Model: SCC-30AB
- Connecting Wires
- Mounting Brackets & Hardware

**Mix and match panels with charge controllers & accessories (sold separately) for a customized solar system to meet any power needs.**

**Portable Charging Kits**

**MSK SERIES**

- 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 overheating
- Automatically detects 12 or 24V battery(s), for use with all battery types
- Includes protective carrying case
- NOTE: Battery is not included

**APPLICATIONS**

- Recreational vehicles
- Motor Sports
- Cabins
- Remote Locations
- Emergency Back-up Power
- Boating
- Field Work

**10 YEAR 80% POWER OUTPUT WARRANTY ON SOLAR PANELS**

**2 YEAR WARRANTY ON REMAINING COMPONENTS**

**How much power can I generate per day?**

- **MSK-90** (90 Watts): Monocrystalline 21.38 13.6 x 25.4 x 4.3 5.55 Amps
- **MSK-135** (135 Watts): Monocrystalline 28.60 19.8 x 24.4 x 4.3 8.34 Amps

**10 Amp Solar Charge Controller**

- Built-in to the back of the folding solar panel to manage the solar charge and protect the battery.
- 3 stage charge controller
- Indicates battery state of charge
- PWM type
- For use with all lead acid battery types

**SAMLEX BULK SOLAR PANELS** are available by special order on request. Models available range from 50 to 230 Watts. MOQ’s Apply.
Portable Solar Trickle Chargers

**SUNCHARGER SERIES**

Samlex SunChargers are portable solar panels designed for trickle charging 12V rechargeable Lead Acid batteries. Available in 5W or 10W, SunChargers lightweight and compact design produces twice the power of amorphous or thin-film panels. More power in a smaller package.

**Portable Solar Panels: SunCharger Series**

**Specifications**
- Model SC-05
- Model SC-10

**Type of cell**
- Polycrystalline
- Polycrystalline

**Output voltage (at max. power point), Vmp**
- 16.0VDC
- 17.0VDC

**Output current (at max. power point), Imp**
- 0.30A
- 0.56A

**Operating temperature**
- -35°F to 175°F

**Dimensions (L x W x H), inches**
- 12 x 10 x 0.53
- 12 x 15 x 0.53

**Weight, (lbs)**
- 1.2
- 2.0

Keep your batteries charged during extended periods of non-use.

**APPLICATIONS**
- Recreational vehicles
- Marine
- ATVs
- Private aircrafts

**2 YEAR LIMITED WARRANTY**

---

**Base Station Radio Cabinets & Power Supply Combinations**

Integrate your mobile radio with Samlex SEC Series 12, 23 or 35 Amp power supplies to create an attractive and functional desktop base station unit.

Cabinets are custom fit to specific land mobile radios 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.

Samlex 12, 23 and 35 Amp power supplies share the same physical footprint and can be used with any of the radio cabinets interchangeably.

**3 YEAR LIMITED WARRANTY**

**BASE STATION RADIO CABINET OFFERING**

**Options**

- Cabinet & SEC-1223 Power Supply Combination
- Cabinet & SEC-1212 Power Supply Combination
- Cabinet Only

**Options**

- Cabinet & SEC-1223 Power Supply Combination
- Cabinet & SEC-1212 Power Supply Combination
- Cabinet Only

**Vertex Radio Models**

- VX2000, VX2500, VX3000, VX3500 12070-V SEC-1212-VX SEC-1223-VX
- VHX100/VX100 Series 12210-V SEC-1212-VX2 SEC-1223-VX2
- VX2000, VX2100, EVA-5105D/5400, VX4550, VX4600 12280-V SEC-1212-VX4 SEC-1223-VX4

**Kenwood Radio Models**

- TK-6110 12270-K n/a SEC-1223-TK4

**HYT Radio Models**

- M67/10 Series 12400-H n/a SEC-1223-HYT
- Hytrax (Mid Range) Radio Models
  - M7050, M7030 12400-H n/a SEC-1223-M7030
  - M7100 12170-H n/a SEC-1223-M7100
  - 500X/MOX 12180-H n/a SEC-1225-500XM
  - HEM150 12410-H n/a SEC-1223-HEM150

**Icom Radio Models**

- IC-A110, IC-F1010/F2010, IC-F1050/F2050 12170-H SEC-1212-IC1 SEC-1223-IC1
- IC-F310, 320, 410, 510, 610 12120-H SEC-1212-IC2 SEC-1223-IC2
- IC-F110F/F210, IC-F115F/F215, IC-F121F/F221, F3121, F3211, F5011, F5111, IC-282H 12200-H SEC-1212-IC3 SEC-1223-IC3
- IC-F505IC-F605, IC-F505IC-F605 12333-H n/a SEC-1223-IC4

**Yaesu Radio Models**

- FT-2800 12333-H n/a n/a
Backup Circuit

DC power to the load while providing a current limited charge to the external backup battery. Once AC power is restored, the SEC-1223BBM will continue to seamlessly supply 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 external backup battery.

**Backup Circuit**

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 external backup battery.

**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.

**Battery Backup**

Use the SEC-R2 rackplate to conveniently combine the SEC-1223BBM with another power supply, mobile radio or battery pack. Rackplates are sold separately.

**Applications**

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

**Switching Power Supplies**

**SEC SERIES**

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. Desktop power supply and radio cabinet combinations are available (see page 22).

**Desktop Switching Power Supplies - BBM SERIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VAC)</th>
<th>Output (VDC)</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC-1223BBM</td>
<td>120</td>
<td>13.8</td>
<td>23</td>
<td>3.4</td>
<td>7.0 x 9.5 x 2.4</td>
<td>UL, FCC</td>
</tr>
<tr>
<td>SEC-1223BBM-230</td>
<td>230</td>
<td>13.8</td>
<td>23</td>
<td>3.4</td>
<td>7.0 x 9.5 x 2.4</td>
<td>EMI, EMC</td>
</tr>
</tbody>
</table>

**Battery Backup**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Voltage</th>
<th>Output Voltage</th>
<th>Output Current (amps)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBM-1235</td>
<td>28 VDC</td>
<td>26 VDC &lt; input</td>
<td>≤ 25 A</td>
<td>0.7</td>
<td>3.9 x 4.5 x 1.9</td>
</tr>
<tr>
<td>BBM-12100</td>
<td>28 VDC</td>
<td>26 VDC &lt; input</td>
<td>≤ 100 A</td>
<td>2.2</td>
<td>5.9 x 9.4 x 2.6</td>
</tr>
</tbody>
</table>

**SEC-R1 & SEC-R2**

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

**Desktop Switching Power Supplies - SEC SERIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VAC)</th>
<th>Output (VDC)</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC-1212</td>
<td>120</td>
<td>13.8</td>
<td>23</td>
<td>3.4</td>
<td>7.0 x 9.5 x 2.4</td>
<td>UL, FCC</td>
</tr>
<tr>
<td>SEC-1212CE</td>
<td>230</td>
<td>13.8</td>
<td>10</td>
<td>3.0</td>
<td>7.3 x 8.2 x 2.3</td>
<td>CE, RoHS</td>
</tr>
<tr>
<td>SEC-1223</td>
<td>120</td>
<td>13.8</td>
<td>23</td>
<td>3.5</td>
<td>7.3 x 8.2 x 2.3</td>
<td>UL, FCC</td>
</tr>
<tr>
<td>SEC-1223CE</td>
<td>230</td>
<td>13.8</td>
<td>23</td>
<td>3.5</td>
<td>7.3 x 8.2 x 2.3</td>
<td>CE, RoHS</td>
</tr>
<tr>
<td>SEC-1235</td>
<td>120</td>
<td>13.8</td>
<td>23</td>
<td>3.4</td>
<td>7.3 x 8.2 x 2.4</td>
<td>UL, FCC</td>
</tr>
<tr>
<td>SEC-1225M*</td>
<td>120</td>
<td>13.8</td>
<td>23</td>
<td>3.4</td>
<td>7.3 x 8.4 x 2.4</td>
<td>UL, FCC</td>
</tr>
<tr>
<td>SEC-1223BBM</td>
<td>120</td>
<td>13.8</td>
<td>23</td>
<td>3.4</td>
<td>7.0 x 9.5 x 2.4</td>
<td>UL, FCC</td>
</tr>
<tr>
<td>SEC-1223BBM-230</td>
<td>230</td>
<td>13.8</td>
<td>23</td>
<td>3.4</td>
<td>7.0 x 9.5 x 2.4</td>
<td>EM, EMC</td>
</tr>
<tr>
<td>SEC-R1</td>
<td>-</td>
<td>-</td>
<td>23</td>
<td>2.6</td>
<td>19 x 3.5 x 7.75</td>
<td>RoHS</td>
</tr>
<tr>
<td>SEC-R2</td>
<td>-</td>
<td>-</td>
<td>23</td>
<td>3.2</td>
<td>19 x 3.5 x 7.75</td>
<td>RoHS</td>
</tr>
</tbody>
</table>

* Comes with meter

**SEC-R2 with Power Supply and Radio**

3 YEAR LIMITED WARRANTY

**Compliance**

- FCC Part 15(B), Class B
- UL Safety Listed
- RoHS

**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

**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 120VAC or 230VAC
- Available in desktop or rackmount
Redundant Switching Power Supplies

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 3U MPS 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
- Communication systems
- Security systems
- Test equipment
- Plotters & GPS receivers

COMPLIANCE
- CSA available in Canada

2 YEAR LIMITED WARRANTY

DC-DC Step-Down Converters

SDC SERIES

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.

DESIGN FEATURES
- Advanced switch mode design
- Mount in almost any location
- Compact and light weight
- High efficiency
- Cycle by cycle current limiting circuit
- Over voltage protection
- Short circuit protection
- Reverse polarity protection

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

COMPLIANCE
- CE, RoHS (except SDC-15 & SDC-23)

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) have at least one backup module (+1) fully operational and sharing the load with the other modules.

When sizing the load for N + 1, allow enough overhead to have at least one module in reserve.

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VAC)</th>
<th>Output (VDC)</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC-40BRM</td>
<td>120</td>
<td>13.8</td>
<td>40</td>
<td>20.5</td>
<td>19 x 15.9 x 3.6</td>
</tr>
<tr>
<td>SEC-60BRM</td>
<td>120</td>
<td>13.8</td>
<td>60</td>
<td>22.0</td>
<td>19 x 15.9 x 3.6</td>
</tr>
<tr>
<td>SEC-80BRM</td>
<td>120</td>
<td>13.8</td>
<td>80</td>
<td>23.5</td>
<td>19 x 15.9 x 3.6</td>
</tr>
<tr>
<td>SEC-100BRM</td>
<td>120</td>
<td>13.8</td>
<td>100</td>
<td>25.0</td>
<td>19 x 15.9 x 3.6</td>
</tr>
<tr>
<td>SEC-40BRM-230</td>
<td>230</td>
<td>13.8</td>
<td>40</td>
<td>20.5</td>
<td>19 x 15.9 x 3.6</td>
</tr>
<tr>
<td>SEC-100BRM-230</td>
<td>230</td>
<td>13.8</td>
<td>100</td>
<td>25.0</td>
<td>19 x 15.9 x 3.6</td>
</tr>
<tr>
<td>SEC-245BRM</td>
<td>120</td>
<td>24.0</td>
<td>50</td>
<td>25.0</td>
<td>19 x 15.9 x 3.6</td>
</tr>
<tr>
<td>SEC-4825BRM</td>
<td>120</td>
<td>48.0</td>
<td>25</td>
<td>30.0</td>
<td>19 x 15.9 x 3.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (VDC)</th>
<th>Amps (A)</th>
<th>Specific to</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC-240VPSB</td>
<td>120</td>
<td>14.2</td>
<td>20</td>
<td>SEC-40, 60 &amp; 100 BRM (120VAC)</td>
</tr>
<tr>
<td>SEC-240VPSB</td>
<td>120</td>
<td>28</td>
<td>10</td>
<td>SEC-245BRM</td>
</tr>
<tr>
<td>SEC-240VPSB</td>
<td>120</td>
<td>48</td>
<td>5</td>
<td>SEC-4825BRM</td>
</tr>
<tr>
<td>SEC-40VPSB-230</td>
<td>230</td>
<td>14.2</td>
<td>20</td>
<td>SEC-40, 100BRM-230</td>
</tr>
<tr>
<td>SEC-240VPSB-230</td>
<td>230</td>
<td>28</td>
<td>10</td>
<td>SEC-245BRM-230</td>
</tr>
</tbody>
</table>
DC-DC Isolated Converters

**IDC SERIES**

- Innovative Power Conversion Products Since 1991

**DC-DC Isolated Converters**

**IDC SERIES**

The IDC Series is a complete line of highly efficient DC-DC converters suitable for applications requiring isolation between input and output. Available in a variety of models from light-duty to industrial applications.

**APPLICATIONS**

- Earth moving equipment
- Heavy trucks
- Buses
- Marine
- Two-way radio
- DC lighting systems
- AM/FM sound systems
- Instrumentation

**COMPLIANCE**

- RoHS
- CE

**2 YEAR LIMITED WARRANTY**

**DC-DC Isolated Converters - Communications**

- Advanced switch mode design
- Current limited
- Compact and lightweight
- High efficiency
- Short circuit protected
- ¼” push-on flat pin connectors

**DESIGN FEATURES**

**DC-DC Step-Up Converters**

**STEP, VTC & IDC SERIES**

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

**APPLICATIONS**

- Earth moving equipment
- Heavy trucks
- Buses
- Marine
- Two-way radio
- DC lighting systems
- AM/FM sound systems

**COMPLIANCE**

- RoHS
- CE

**2 YEAR LIMITED WARRANTY**

**DC-DC Step-Up Converters**

**STEP, VTC & IDC SERIES**

**DESIGN FEATURES**

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

**VTC SERIES**

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

**IDC SERIES**

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

**APPLICATIONS**

- Earth moving equipment
- Heavy trucks
- Buses
- Marine

**COMPLIANCE**

- RoHS
- CE (except VTC)

**2 YEAR LIMITED WARRANTY**

**DC-DC Step-Up Converters**

**STEP, VTC & IDC SERIES**

**DESIGN FEATURES**

- Advanced switch mode design
- Current limited
- Compact and lightweight
- High efficiency
- Short circuit protected
- ¼” push-on flat pin connectors

**APPLICATIONS**

- Earth moving equipment
- Two-way radio
- Heavy trucks
- DC lighting systems
- Buses
- AM/FM sound systems
- Marine

**COMPLIANCE**

- RoHS
- CE

**2 YEAR LIMITED WARRANTY**

**DC-DC Isolated Converters - Communications**

- Advanced switch mode design
- Current limited
- Compact and lightweight
- High efficiency
- Short circuit protected
- ¼” push-on flat pin connectors

**APPLICATIONS**

- Earth moving equipment
- Two-way radio
- Heavy trucks
- Lighting systems
- Buses
- AM/FM sound systems
- Marine
- Instrumentation

**COMPLIANCE**

- RoHS
- CE

**2 YEAR LIMITED WARRANTY**

**DC-DC Isolated Converters**

**IDC SERIES**

- Advanced switch mode design
- Current limited
- Compact and lightweight
- High efficiency
- Short circuit protected
- ¼” push-on flat pin connectors

**APPLICATIONS**

- Earth moving equipment
- Two-way radio
- Heavy trucks
- Lighting systems
- Buses
- AM/FM sound systems
- Marine
- Instrumentation

**COMPLIANCE**

- RoHS
- CE

**2 YEAR LIMITED WARRANTY**

**DC-DC Isolated Converters - Communications**

- Advanced switch mode design
- Current limited
- Compact and lightweight
- High efficiency
- Short circuit protected
- ¼” push-on flat pin connectors

**APPLICATIONS**

- Earth moving equipment
- Two-way radio
- Heavy trucks
- Lighting systems
- Buses
- AM/FM sound systems
- Marine
- Instrumentation

**COMPLIANCE**

- RoHS
- CE

**2 YEAR LIMITED WARRANTY**
Contact Information

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Fax: 604-525-5221

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Kent WA

Canadian Shipping Warehouse
Delta BC

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