Samlex is your complete source for commercial, industrial and consumer power conversion products.

Best Customer Service In The Industry
Talk to someone the first time you call, guaranteed.

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

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


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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 vary by product. Warranty is limited outside of Continental USA and Canada.

www.samlexamerica.com
**EVO™ SERIES**

**Pure Sine Wave Inverter/Chargers**

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.

**Applications**
- Marine
- 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.

**3 YEAR LIMITED WARRANTY**

---

**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 32GB 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**

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<thead>
<tr>
<th>Model</th>
<th>Input (VDC)</th>
<th>Output (WAC)</th>
<th>Output Power (W)</th>
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**EVO™ F SERIES**

**Pure Sine Wave Inverter/Chargers**

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.

**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**
- Marine
- Recreational vehicles
- Trucks/Specialty vehicles
- Alternative energy
- Off-grid
- Cabins
- Rural electrification
- 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.

**3 YEAR LIMITED WARRANTY**

**SPECIFICATIONS**

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<th>Model</th>
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* Hard-wireable

**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 32 GB SD card slot for data logging
- Comes with 10M/33ft RJ-45 data cable

---

**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.
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

**RC-15A Optional Remote Controls**

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

**RC-300 Optional Remote Controls**

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

**PST SERIES**

**Pure Sine Wave Inverters**

**MORE POWER SOLUTIONS**

**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
- 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**

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

**3 YEAR LIMITED WARRANTY**

**SPECIFICATIONS**

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<th>Model</th>
<th>Input (VDC)</th>
<th>Output (VAC)</th>
<th>Output Power (W)</th>
<th>Surge (W)</th>
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* Hard-wireable. *Remote Input – Use to turn inverter ON or OFF with ignition start or any other Remote ON/OFF switch.

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.
## PST E SERIES (230 VAC)

**Pure Sine Wave Inverters**

### 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

### New

#### 3 YEAR LIMITED WARRANTY

### SPECIFICATIONS

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<th>Model</th>
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### RC-300
- For use with 3000 Watt models
- LCD indicates AC volts, AC amps, frequency, power (watts) and power factor
- 25’ of cable

### RC-15
- Optional remote for 600 - 2000W models.

### RC-300
- Optional remote for 3000 Watt models. 25’ of cable. Detailed monitoring and remote power operation.

### RC-300
- Optional remote for 3000 Watt models. 25’ of cable. Detailed monitoring and remote power operation.

### RC-300
- Optional remote for 3000 Watt models. 25’ of cable. Detailed monitoring and remote power operation.

### PST RACK MOUNT SERIES

**Pure Sine Wave Inverters with Transfer Relay**

### Features
- Extremely fast synchronized transfer from grid to inverter and back
- Built-in 16A automatic transfer switch
- On-Line and Off-Line modes
- Load Safe algorithm
- Flexible configurable parameters
- 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
- UPS system

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

### New

#### 2 YEAR LIMITED WARRANTY

### SPECIFICATIONS

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</table>

### 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.
SSW SERIES
Pure Sine Wave Inverters

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
Mobile offices
Recreational vehicles
Camping

Compliance
ETL Safety Listed to UL Standard 458

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

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 5 sizes.
See page 18 for more details.

SPECIFICATIONS

<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>
<th>USB</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSW-350-12A</td>
<td>12 115</td>
<td>350 700</td>
<td>2.0</td>
<td>8.86 x 6.10 x 2.32</td>
<td>2</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSW-600-12A</td>
<td>12 115</td>
<td>600 1200</td>
<td>2.4</td>
<td>10.0 x 6.10 x 2.32</td>
<td>2</td>
<td>Yes</td>
<td></td>
<td></td>
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<tr>
<td>SSW-1000-12A</td>
<td>12 115</td>
<td>1000 2000</td>
<td>6.4</td>
<td>11.10 x 8.74 x 3.50</td>
<td>n/a</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSW-1500-12A</td>
<td>12 115</td>
<td>1500 3000</td>
<td>7.8</td>
<td>13.11 x 8.74 x 3.50</td>
<td>n/a</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSW-2000-12A</td>
<td>12 115</td>
<td>2000 4000</td>
<td>9.0</td>
<td>13.11 x 8.74 x 3.50</td>
<td>n/a</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSW-R1-12B Remote Control</td>
<td>Remote Control for use with 1000W, 1500W &amp; 2000W models, included.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NTX SERIES
Pure Sine Wave Inverters

Features
• Samlex Hypersurge™ technology starts high surge loads with ease
• High efficiency and very low idle current
• Compact size and lightweight
• 2 GFCI protected outlets (1000W - 2000W models)
• NTX-3000-12 features a 30 Amp NEMA L5-30R locking AC outlet with mating plug and built-in GFCI protection
• Wide input voltage range
• Quiet temperature & load-controlled variable speed fan
• LCD Remote Control Model NTX-RC included

Applications
Emergency backup power
Mobile offices
Recreational vehicles
Camping

Compliance
ETL Safety Listed to UL Standard 458 and certified to CSA Std. C22.2 No. 107.1

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

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 5 sizes.
See page 18 for more details.

SPECIFICATIONS

<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>
</tr>
</thead>
<tbody>
<tr>
<td>NTX-1000-12</td>
<td>12 115</td>
<td>1000 2000</td>
<td>5.4</td>
<td>8.5 x 11.06 x 3.62</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>NTX-1500-12</td>
<td>12 115</td>
<td>1500 3000</td>
<td>7.8</td>
<td>8.5 x 13.11 x 3.62</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NTX-2000-12</td>
<td>12 115</td>
<td>2000 4000</td>
<td>8.6</td>
<td>8.5 x 13.11 x 3.62</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NTX-3000-12*</td>
<td>12 115</td>
<td>3000 6000</td>
<td>12.0</td>
<td>8.5 x 17.75 x 3.62</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NTX-RC Remote Control for use with 1000W, 1500W, 2000W &amp; 3000W models, included.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

NTX-RC Remote Control included with every 1000W, 1500W, 2000W & 3000W Model:
• Power ON/OFF
• 10’ cable with RJ45 connector
• Display Indicates: Input voltage, Output power, Input fault, Output fault
• Also sold separately
### PSE SERIES
**Modified Sine Wave Inverters**

#### 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
- Marine
- Recreational
- Recreational vehicles
- Camping
- Telecommunication
- Construction sites
- Solar power systems
- Emergency backup power
- Home electronics

#### SPECIFICATIONS

<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 (NEMA5-15R)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSE-12125A</td>
<td>12</td>
<td>120</td>
<td>1250</td>
<td>2500</td>
<td>6.8</td>
<td>9.45 x 13.19 x 3.35</td>
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</tr>
<tr>
<td>PSE-12175A</td>
<td>12</td>
<td>120</td>
<td>1750</td>
<td>3500</td>
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<td>9.45 x 17.91 x 3.35</td>
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</tr>
<tr>
<td>PSE-12275A*</td>
<td>12</td>
<td>120</td>
<td>2750</td>
<td>4500</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>1250</td>
<td>2500</td>
<td>6.8</td>
<td>9.45 x 13.19 x 3.35</td>
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</tr>
<tr>
<td>PSE-24175A</td>
<td>24</td>
<td>120</td>
<td>1750</td>
<td>3500</td>
<td>9.4</td>
<td>9.45 x 17.91 x 3.35</td>
<td>2</td>
</tr>
<tr>
<td>PSE-24275A*</td>
<td>24</td>
<td>120</td>
<td>2750</td>
<td>4500</td>
<td>16.2</td>
<td>8.07 x 19.49 x 6.30</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Optional Remote Control RC-15
- For use with all PSE Models
- ON/OFF button
- 15' of cable

#### Models PSE-12275A & PSE-24275A
- Output AC power is available by means of hardwire connection.
- A NEMA-15R receptacle with 15 Amp breaker is also included.

### SAM SERIES
**Modified Sine Wave Inverters**

#### 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
- Emergency backup power
- Service vehicles
- Mobile offices
- Recreational vehicles, camping
- Telecommunication
- Field work/construction sites
- Home electronics: TV, DVD, gaming consoles, Tools & appliances

#### SPECIFICATIONS

<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>
</tr>
</thead>
<tbody>
<tr>
<td>SAM-100-12*</td>
<td>12</td>
<td>115</td>
<td>100</td>
<td>200</td>
<td>0.30</td>
<td>2.36 x 5.08 x 1.44</td>
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<tr>
<td>SAM-250-12**</td>
<td>12</td>
<td>115</td>
<td>250</td>
<td>500</td>
<td>0.92</td>
<td>4.5 x 5.9 x 1.8</td>
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<tr>
<td>SAM-450-12**</td>
<td>12</td>
<td>115</td>
<td>450</td>
<td>900</td>
<td>1.38</td>
<td>6.1 x 6.0 x 2.2</td>
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<tr>
<td>SAM-800-12*</td>
<td>12</td>
<td>115</td>
<td>800</td>
<td>1600</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>2000</td>
<td>3.70</td>
<td>7.1 x 9.84 x 2.32</td>
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<td>SAM-1500-12</td>
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<td>115</td>
<td>1500</td>
<td>3000</td>
<td>7.10</td>
<td>7.95 x 11.14 x 3.3</td>
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<tr>
<td>SAM-2000-12</td>
<td>12</td>
<td>115</td>
<td>2000</td>
<td>4000</td>
<td>8.50</td>
<td>7.95 x 13.58 x 3.3</td>
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<tr>
<td>SAM-3000-12</td>
<td>12</td>
<td>115</td>
<td>3000</td>
<td>6000</td>
<td>11.80</td>
<td>7.95 x 16.53 x 3.3</td>
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<tr>
<td>SAM-4500-12**</td>
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<td>115</td>
<td>4500</td>
<td>9000</td>
<td>1.33</td>
<td>6.0 x 6.1 x 1.80</td>
<td>1</td>
</tr>
</tbody>
</table>

#### 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-100-12
- Easily plugs into any 12V socket in your car, boat, truck or RV.

#### RC-15 Remote Control
- For use with all PSE Models
- ON/OFF button
- 15’ of cable with RJ45 Connector
- Bar Meter Monitor for battery charge level and output power
- LED indicator for voltage, temperature and overload protection.
- Sold separately

#### Models SAM-1000-12
- Easily plugs into any 12V socket in your car, boat, truck or RV.
SAM-1500C-12
Modified Sine Wave Inverter/Charger

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 19

SPECIFICATIONS

<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>
<th>DC-FA-100</th>
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</thead>
<tbody>
<tr>
<td>SAM-1500C-12</td>
<td>12</td>
<td>115</td>
<td>1500</td>
<td>3000</td>
<td>8.82</td>
<td>7.95 x 13.58 x 3.30</td>
<td>2</td>
<td>DC-FA-100</td>
</tr>
</tbody>
</table>

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

STS-30 Transfer Switch

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
Marine
Lighting systems

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

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

NOTE: Please refer to the manual for detailed installation instructions.
INVERTER ACCESSORIES
Installation Kits, Fuses & Circuit Protection

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

INVERTER ACCESSORIES
Installation Kits, Fuses & Circuit Protection

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.

Installation Kits, Fuses & Circuit Protection

Model No. of Inverter Installation Kit | PST Series | Cable Fuse | Installation Kit |
--- | --- | --- | ---
DC-1000-KIT | PST-1212-12 | AWG#4 2 x 10 ft | MRBF-100 100A |
DC-1000-KIT | PST-1212-12 | AWG#4 2 x 10 ft | MRBF-200 200A |
DC-2500-KIT-XL | PST-1212E-12 | AWG#4 2 x 15 ft | MRBF-300 300A |
DC-3500-KIT | PST-1212-12 | AWG#4 2 x 10 ft | MRBF-400 400A |

Recommended size of inverter for up to 3% voltage drop from Battery to the Inverter for 10 ft cable run and up to 5% voltage drop for 15 ft cable run.

NOTES:
- Specifications are subject to change without notice.
- Cable Specifications: (i) Red Positive, Black Negative, each 10 ft or 15 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.

2 YEAR LIMITED WARRANTY

INVERTER ACCESSORIES
Installation Kits, Fuses & Circuit Protection

Model No. of Inverter Installation Kit | PST Series | Cable Fuse | Installation Kit |
--- | --- | --- | ---
DC-1000-KIT | PST-1212-12 | AWG#4 2 x 10 ft | MRBF-100 100A |
DC-2000-KIT | PST-1212-12 | AWG#4 2 x 10 ft | MRBF-200 200A |
DC-2500-KIT | PST-1212E-12 | AWG#4 2 x 15 ft | MRBF-300 300A |
DC-3500-KIT | PST-1212-12 | AWG#4 2 x 10 ft | MRBF-400 400A |

Recommended size of inverter for up to 3% voltage drop from Battery to the Inverter for 10 ft cable run and up to 5% voltage drop for 15 ft cable run.

NOTES:
- Specifications are subject to change without notice.
- Cable Specifications: (i) Red Positive, Black Negative, each 10 ft or 15 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.

2 YEAR LIMITED WARRANTY

INVERTER ACCESSORIES
Installation Kits, Fuses & Circuit Protection

Model No. of Inverter Installation Kit | PST Series | Cable Fuse | Installation Kit |
--- | --- | --- | ---
DC-1000-KIT | PST-1212-12 | AWG#4 2 x 10 ft | MRBF-100 100A |
DC-2000-KIT | PST-1212-12 | AWG#4 2 x 10 ft | MRBF-200 200A |
DC-2500-KIT | PST-1212E-12 | AWG#4 2 x 15 ft | MRBF-300 300A |
DC-3500-KIT | PST-1212-12 | AWG#4 2 x 10 ft | MRBF-400 400A |

Recommended size of inverter for up to 3% voltage drop from Battery to the Inverter for 10 ft cable run and up to 5% voltage drop for 15 ft cable run.

NOTES:
- Specifications are subject to change without notice.
- Cable Specifications: (i) Red Positive, Black Negative, each 10 ft or 15 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.

2 YEAR LIMITED WARRANTY
**SEC UL SERIES**

**Battery Chargers**

- **Features**
  - Switch mode technology for high efficiency, lightweight and quiet operation
  - 120 or 230 VAC, 50/60 Hz (user selectable)
  - Automatic operation for ALL Lead Acid Batteries: Flooded, AGM or Gel Cell
  - User Selectable (by DP Switch) for 2 or 3 stage, rapid and safe charging of stand-alone and loaded Lead Acid Batteries
  - Can be used as a power supply or DC UPS when used in conjunction with a battery
  - 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
  - Recreational vehicles
  - Marine
  - Communication sites
  - Battery back-up systems
  - Alternative energy systems

- **Compliance**
  - Intertek ETL Listed to meet UL Standard UL-1564, EMI Compliant to FCC Part 15(B), Class B

- **2 YEAR LIMITED WARRANTY**

---

**ISOLATOR, GUARDS & MONITORS**

**Battery Accessories**

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

- **2 YEAR LIMITED WARRANTY**

---

**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.

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

**SPECIFICATIONS**

- **Model**
  - SEC-1215UL
  - SEC-1230UL
  - SEC-1250UL
  - SEC-1280UL
  - SEC-2415UL
  - SEC-2425UL
  - SEC-2440UL

- **VDC**
  - 12
  - 12
  - 12
  - 12
  - 24
  - 24
  - 24

- **Amps**
  - 15
  - 30
  - 50
  - 80
  - 15
  - 25
  - 40

- **Weight**
  - 4.8 lbs
  - 6.4 lbs
  - 9.0 lbs
  - 9.0 lbs
  - 6.4 lbs
  - 9.0 lbs
  - 9.0 lbs

- **Dimensions**
  - 8.6 x 8.4 x 3.3 inches
  - 11.0 x 8.4 x 3.3 inches
  - 13.0 x 9.6 x 3.82 inches
  - 15.0 x 9.6 x 3.82 inches
  - 11.0 x 8.4 x 3.3 inches
  - 13.0 x 9.6 x 3.82 inches
  - 15.0 x 9.6 x 3.82 inches

- **Temp. Sensor**
  - Yes
  - Yes
  - Yes
  - Yes
  - -
  - Yes
  - Yes

- **Half Power Mode**
  - Yes
  - Yes
  - Yes
  - Yes
  - -
  - Yes
  - Yes

- **Optional Remote**
  - Yes
  - Yes
  - Yes
  - Yes
  - -
  - Yes
  - Yes

- **900-RC Remote Control. Comes with 33’ cable.**

---

**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 rewire the alternator or rewire the system. Also known as a Battery Separator or Automatic Charging Relay.

**SPECIFICATIONS**

- **Model**
  - ACR-160
  - BG-40
  - BG-60
  - BG-200
  - BW-01
  - BW-03

- **Description**
  - Automatic Charge Isolator
  - Battery Guard
  - Battery Guard
  - Battery Guard
  - Battery Monitor
  - Battery Monitor

- **Amps (A)**
  - 1.0
  - 0.5
  - 0.5
  - 0.5
  - 0.125
  - 0.2

- **Weight (lbs)**
  - 2.5 x 3.9 x 2.3
  - 3.2 x 2.6 x 1.4
  - 3.2 x 2.6 x 1.4
  - 4.5 x 4.7 x 2.4
  - 2.6 x 2.6 x 0.8
  - 2.4 x 2.4 x 0.8

- **Dimensions (inches)**
  - -
  - -
  - -
  - -
  - -
  - -

- **Compliance**
  - -
  - CE
  - CE
  - CE
  - CE
  - CE

---

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

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**Battery Guards & Monitors**

**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

---

**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 rewire the alternator or rewire the system. Also known as a Battery Separator or Automatic Charging Relay.

**SPECIFICATIONS**

- **Model**
  - ACR-160
  - BG-40
  - BG-60
  - BG-200
  - BW-01
  - BW-03

- **Description**
  - Automatic Charge Isolator
  - Battery Guard
  - Battery Guard
  - Battery Guard
  - Battery Monitor
  - Battery Monitor

- **Amps (A)**
  - 1.0
  - 0.5
  - 0.5
  - 0.5
  - 0.125
  - 0.2

- **Weight (lbs)**
  - 2.5 x 3.9 x 2.3
  - 3.2 x 2.6 x 1.4
  - 3.2 x 2.6 x 1.4
  - 4.5 x 4.7 x 2.4
  - 2.6 x 2.6 x 0.8
  - 2.4 x 2.4 x 0.8

- **Dimensions (inches)**
  - -
  - -
  - -
  - -
  - -
  - -

- **Compliance**
  - -
  - CE
  - CE
  - CE
  - CE
  - CE

---

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

---

**Battery Guards & Monitors**

**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

---

**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 rewire the alternator or rewire the system. Also known as a Battery Separator or Automatic Charging Relay.

**SPECIFICATIONS**

- **Model**
  - ACR-160
  - BG-40
  - BG-60
  - BG-200
  - BW-01
  - BW-03

- **Description**
  - Automatic Charge Isolator
  - Battery Guard
  - Battery Guard
  - Battery Guard
  - Battery Monitor
  - Battery Monitor

- **Amps (A)**
  - 1.0
  - 0.5
  - 0.5
  - 0.5
  - 0.125
  - 0.2

- **Weight (lbs)**
  - 2.5 x 3.9 x 2.3
  - 3.2 x 2.6 x 1.4
  - 3.2 x 2.6 x 1.4
  - 4.5 x 4.7 x 2.4
  - 2.6 x 2.6 x 0.8
  - 2.4 x 2.4 x 0.8

- **Dimensions (inches)**
  - -
  - -
  - -
  - -
  - -
  - -

- **Compliance**
  - -
  - CE
  - CE
  - CE
  - CE
  - CE

---

**NOTE:** Please refer to the manual for detailed installation instructions.
SRV SERIES
Solar Charging Kits

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
Marine
Lighting systems

What’s in Your SRV 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

SPECIFICATIONS
<table>
<thead>
<tr>
<th>Model</th>
<th>Solar Panel</th>
<th>Panel Weight (lbs)</th>
<th>Panel Dimensions (Inches)</th>
<th>Charging Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRV-150-30A</td>
<td>150W</td>
<td>26.4</td>
<td>26.0 x 58.03 x 1.39</td>
<td>8.82A</td>
</tr>
<tr>
<td>SRV-100-30A</td>
<td>100W</td>
<td>17.63</td>
<td>21.73 x 47.25 x 1.39</td>
<td>6.07A</td>
</tr>
</tbody>
</table>

SSP SERIES
Solar Panel Kits

Mix and match panels with charge controllers (see pages 24-25) 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
- SMS-KIT Mounting Brackets & Hardware
Available in 100 and 150 Watts.

Applications
Solar power systems
Emergency backup power
Mobile offices
Telecommunication
Marine
Lighting systems

SPECIFICATIONS
<table>
<thead>
<tr>
<th>Model</th>
<th>Solar Panel</th>
<th>Panel Weight (lbs)</th>
<th>Panel Dimensions (Inches)</th>
<th>Charging Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSP-150-KIT</td>
<td>150W</td>
<td>26.4</td>
<td>26.0 x 58.03 x 1.39</td>
<td>8.82A</td>
</tr>
<tr>
<td>SSP-100-KIT</td>
<td>100W</td>
<td>17.63</td>
<td>21.73 x 47.25 x 1.39</td>
<td>6.07A</td>
</tr>
</tbody>
</table>

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.

MCA-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.

SMS-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.

SAMLEX BULK SOLAR PANELS
are available by special order.
SCC-30AB
Solar Charge Controllers

- 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
- Service vehicles
- Rural electrification
- Marine
- Off-grid & mobile solar systems
- Field work
- Solar home systems
- Recreational vehicles

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.

5 YEAR LIMITED WARRANTY
**MSK SERIES**

**Portable Charging Kits**

- 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
- Field Work
- Cabins
- Camping
- Marine

**10 YEAR POWER WARRANTY**

---

**SUNCHARGER SERIES**

**Battery Maintainers**

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

**Applications**
- Service vehicles
- Fleet
- Marine
- ATV’s
- Private aircrafts
- Cars
- Trucks
- Motorcycles
- Recreational vehicles

**2 YEAR LIMITED WARRANTY**

---

**What’s in Your MSK Kit**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Solar Output</th>
<th>Cell Type</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Charging Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSK-90</td>
<td>90 Watts</td>
<td>Monocrystalline</td>
<td>25.2</td>
<td>40.75 x 25.39 x 1.18</td>
<td>5.68 Amps</td>
</tr>
<tr>
<td>MSK-135</td>
<td>135 Watts</td>
<td>Monocrystalline</td>
<td>35.6</td>
<td>59.85 x 24.41 x 1.18</td>
<td>8.52 Amps</td>
</tr>
<tr>
<td>MSK-XLR</td>
<td>2-pin XLR Adapter (sold separately)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSK-EXT</td>
<td>Extension Cable (sold separately)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Optional:

- 10 Amp Built-in Charge Controller
- MSK-XLR 2-pin XLR Adapter
- MSK-EXT Extension Cable
- Pre-wired Battery Clamps
- 2-pin Adapter
- Protective Carrying Case
- Trifold Solar Panel

**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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Power Voltage, $V_{mp}$</th>
<th>Max Power Current, $I_{mp}$</th>
<th>Max Power</th>
<th>Dimensions (inches)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-05</td>
<td>12.7 VDC 0.39A</td>
<td>5W</td>
<td>8.03 x 11.22 x 0.52</td>
<td>0.8</td>
<td></td>
</tr>
<tr>
<td>SC-10</td>
<td>12.7 VDC 0.79A</td>
<td>10W</td>
<td>14.11 x 11.22 x 0.52</td>
<td>1.2</td>
<td></td>
</tr>
</tbody>
</table>
### IDC SERIES

**DC-DC Isolated Converters**

**Features**
- Isolated
- Advanced switch mode design
- Compact and lightweight
- High efficiency
- Short circuit protected, current limited
- 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
- Buses
- AMPFM sound systems
- Instrumentation
- Communications

**Compliance**
CE

**2 YEAR LIMITED WARRANTY**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC) Range</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>IDC-100A-12</td>
<td>9 - 18</td>
<td>12.5</td>
<td>8</td>
<td>1.2</td>
<td>5.9 x 3.5 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-100B-12</td>
<td>20 - 35</td>
<td>12.5</td>
<td>8</td>
<td>1.2</td>
<td>5.9 x 3.5 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-100C-12</td>
<td>30 - 60</td>
<td>12.5</td>
<td>8</td>
<td>1.2</td>
<td>5.9 x 3.5 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-100D-12</td>
<td>60 - 120</td>
<td>12.5</td>
<td>8</td>
<td>1.2</td>
<td>5.9 x 3.5 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-200A-12</td>
<td>9 - 18</td>
<td>24.5</td>
<td>4</td>
<td>1.2</td>
<td>6.9 x 3.5 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-200B-12</td>
<td>20 - 35</td>
<td>24.5</td>
<td>4</td>
<td>1.2</td>
<td>6.9 x 3.5 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-200C-12</td>
<td>30 - 60</td>
<td>24.5</td>
<td>4</td>
<td>1.2</td>
<td>6.9 x 3.5 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-360A-12</td>
<td>9 - 18</td>
<td>48V</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-360B-12</td>
<td>20 - 35</td>
<td>48V</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-360C-12</td>
<td>30 - 60</td>
<td>48V</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-360D-12</td>
<td>60 - 120</td>
<td>48V</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-360A-24</td>
<td>9 - 18</td>
<td>24.5</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-360B-24</td>
<td>20 - 35</td>
<td>24.5</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
<td>CE</td>
</tr>
<tr>
<td>IDC-360C-24</td>
<td>30 - 60</td>
<td>24.5</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
<td>CE</td>
</tr>
</tbody>
</table>

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.

### SDC & STEP SERIES

**DC-DC Non-Isolated Converters**

**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

**Step-Up Converters**
- Non-isolated
- Switch mode design
- Over-current, over-voltage, reverse polarity protection
- ¼” push-on flat pin connectors

**Compliance**
CE

**2 YEAR LIMITED WARRANTY**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC) Range</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>SDC-5</td>
<td>20-32</td>
<td>13.8</td>
<td>5.0</td>
<td>0.4</td>
<td>3.5 x 2.7 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>SDC-12</td>
<td>20-32</td>
<td>13.8</td>
<td>12</td>
<td>0.6</td>
<td>3.9 x 3.5 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>SDC-15</td>
<td>20-35</td>
<td>13.8</td>
<td>12</td>
<td>2.0</td>
<td>7.8 x 4.8 x 2.4</td>
<td>CE</td>
</tr>
<tr>
<td>SDC-23</td>
<td>20-35</td>
<td>13.8</td>
<td>20</td>
<td>2.2</td>
<td>7.8 x 4.8 x 2.4</td>
<td>CE</td>
</tr>
<tr>
<td>SDC-30</td>
<td>20-32</td>
<td>13.8</td>
<td>30</td>
<td>1.5</td>
<td>5.9 x 3.5 x 1.9</td>
<td>CE</td>
</tr>
<tr>
<td>SDC-60</td>
<td>20-35</td>
<td>13.8</td>
<td>60</td>
<td>2.6</td>
<td>7.0 x 3.5 x 2.6</td>
<td>CE</td>
</tr>
<tr>
<td>STEP 7</td>
<td>9 - 18</td>
<td>24 - 25.7</td>
<td>7</td>
<td>0.7</td>
<td>3.0 x 3.5 x 2.0</td>
<td>CE</td>
</tr>
<tr>
<td>STEP 10</td>
<td>9 - 18</td>
<td>24 - 25.7</td>
<td>10</td>
<td>0.9</td>
<td>5.0 x 3.5 x 1.9</td>
<td>CE</td>
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<tr>
<td>STEP 20</td>
<td>9 - 18</td>
<td>24 - 25.7</td>
<td>20</td>
<td>1.8</td>
<td>6.0 x 3.7 x 3.6</td>
<td>CE</td>
</tr>
</tbody>
</table>

**Specifications**

**Step-Up, Step-Down Application**

**Step-Down Converters**

- 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
- ¼” push-on flat pin connectors

**Compliance**
CE

**2 YEAR LIMITED WARRANTY**

**DC-DC Isolated IDC Series**

**Ground Reference Isolation**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input (VDC) Range</th>
<th>Output (VDC)</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDC-100A-12</td>
<td>9 - 18</td>
<td>12.5</td>
<td>8</td>
<td>1.2</td>
<td>5.9 x 3.5 x 1.9</td>
</tr>
<tr>
<td>IDC-100B-12</td>
<td>20 - 35</td>
<td>12.5</td>
<td>8</td>
<td>1.2</td>
<td>5.9 x 3.5 x 1.9</td>
</tr>
<tr>
<td>IDC-100C-12</td>
<td>30 - 60</td>
<td>12.5</td>
<td>8</td>
<td>1.2</td>
<td>5.9 x 3.5 x 1.9</td>
</tr>
<tr>
<td>IDC-100D-12</td>
<td>60 - 120</td>
<td>12.5</td>
<td>8</td>
<td>1.2</td>
<td>5.9 x 3.5 x 1.9</td>
</tr>
<tr>
<td>IDC-100A-24</td>
<td>9 - 18</td>
<td>24.5</td>
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<td>1.2</td>
<td>6.9 x 3.5 x 1.9</td>
</tr>
<tr>
<td>IDC-100C-24</td>
<td>30 - 60</td>
<td>24.5</td>
<td>4</td>
<td>1.2</td>
<td>6.9 x 3.5 x 1.9</td>
</tr>
<tr>
<td>IDC-200A-12</td>
<td>9 - 18</td>
<td>12.5</td>
<td>16</td>
<td>1.4</td>
<td>6.9 x 3.5 x 1.9</td>
</tr>
<tr>
<td>IDC-200C-12</td>
<td>30 - 60</td>
<td>12.5</td>
<td>16</td>
<td>1.4</td>
<td>6.9 x 3.5 x 1.9</td>
</tr>
<tr>
<td>IDC-360A-12</td>
<td>9 - 18</td>
<td>48V</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
</tr>
<tr>
<td>IDC-360B-12</td>
<td>20 - 35</td>
<td>48V</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
</tr>
<tr>
<td>IDC-360C-12</td>
<td>30 - 60</td>
<td>48V</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
</tr>
<tr>
<td>IDC-360D-12</td>
<td>60 - 120</td>
<td>48V</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 2.3 x 2.8</td>
</tr>
</tbody>
</table>

The SDC & STEP SERIES is designed for step-up, step-down applications requiring long DC path for distributed networks. The 12 VDC load is located at a distance location from the 12V source.
These highly efficient, lightweight and compact power supplies—known as Switching Power Supplies—are designed for minimal power loss. They are available in a variety of configurations to meet your DC power requirements.

### Applications
- Two-way radio base stations
- Communication systems
- Security systems
- GPS receivers
- OEM applications

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

### 3 YEAR LIMITED WARRANTY

---

### BBM SERIES

#### Switching Power Supplies with 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 backup battery.

### Applications
- Two-way radio base stations
- Communication systems
- Security systems
- Test equipment
- 12 Volt lighting systems
- 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Voltage (VAC)</th>
<th>Output Voltage (VDC)</th>
<th>Output Current (Amps)</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>0.7</td>
<td>3.4</td>
<td>7.0 x 9.5 x 2.4</td>
<td>UL, FCC</td>
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<tr>
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<td>0.7</td>
<td>3.4</td>
<td>7.0 x 9.5 x 2.4</td>
<td>CE</td>
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</tbody>
</table>

#### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Compliance</th>
</tr>
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<td>RoHS</td>
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---

### SEC SERIES

#### Switching Power Supplies

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

### Applications
- Automotive displays
- Marine displays
- DC Computers
- 12 Volt lighting systems
- OEM applications

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

### 3 YEAR LIMITED WARRANTY

---

### Specifications

<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>
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<td>SEC-1235</td>
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<td>UL, FCC</td>
</tr>
</tbody>
</table>

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### Standards and Compliance

The SEC-1223BBM meets the following standards:

- UL Safety Listed
- CE

The minimum height of the registered trademark symbol shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the word “LISTED” would only be used once—below the UL Mark. Please note: No other fonts are acceptable.

---

### SEC-R1 & SEC-R2

Rack Mount Assemblies (sold separately) can be used with all Samlex SEC Series power supply models—including the SEC-1223BBM.
BRM SERIES
Redundant Switching Power Supplies

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 (redundancy 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
GPS receivers
Automotive displays
Marine displays
DC computers
Lighting systems
OEM applications

Compliance
CSA available in Canada

2 YEAR LIMITED WARRANTY

SEC-1212P
100-240 13.8 10 3.0 3.7 x 8.2 x 2.3
SEC-1223P 100-240 13.8 20 3.4 3.7 x 8.2 x 2.3
SEC-1235P 100-240 13.8 30 3.7 3.7 x 8.2 x 2.3
SEC-1235P-M 100-240 13.8 30 3.7 3.7 x 8.2 x 2.4

SEC-1235P-M
The SEC-1235P-M sports the newly designed backlit dual analog meters.

SPECIFICATIONS
Model | Input (VAC) | Output (VDC) | Amps (A) | Weight (lbs) | Dimensions (inches)
--- | --- | --- | --- | --- | ---
SEC-1212P | 100-240 | 13.8 | 10 | 3.0 | 3.7 x 8.2 x 2.3
SEC-1223P | 100-240 | 13.8 | 20 | 3.4 | 3.7 x 8.2 x 2.3
SEC-1235P | 100-240 | 13.8 | 30 | 3.7 | 3.7 x 8.2 x 2.3
SEC-1235P-M | 100-240 | 13.8 | 30 | 3.7 | 3.7 x 8.2 x 2.4

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.

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.

Carbon Reduction
The SEC-1235P-M sports the newly designed backlit dual analog meters.

NEW

SEC-P SERIES
Switching Power Supplies

Features
- Universal Input: 100 to 240 VAC, 50/60 Hz
- Power Factor Corrected
- Meets with Minimum Energy Performance Standard (MEPS) for external power supplies
- Efficiency Level 6 (VI)
- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Circuit innovations minimize output voltage ripple and RFI

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

Compliance
FCC Part 15(B), Class B, RoHS2, UL Safety Listed, CE

3 YEAR LIMITED WARRANTY

SEC-12012P
100-240 13.8 11 3.0 3.7 x 8.2 x 2.3
SEC-12023P 100-240 13.8 23 3.4 3.7 x 8.2 x 2.3
SEC-12035P 100-240 13.8 30 3.7 3.7 x 8.2 x 2.4
SEC-12035P-M 100-240 13.8 30 3.7 3.7 x 8.2 x 2.4

SPECIFICATIONS
Model | Input (VAC) | Output (VDC) | Amps (A) | Weight (lbs) | Dimensions (inches)
--- | --- | --- | --- | --- | ---
SEC-12012P | 100-240 | 13.8 | 11 | 3.0 | 3.7 x 8.2 x 2.3
SEC-12023P | 100-240 | 13.8 | 23 | 3.4 | 3.7 x 8.2 x 2.3
SEC-12035P | 100-240 | 13.8 | 30 | 3.7 | 3.7 x 8.2 x 2.4
SEC-12035P-M | 100-240 | 13.8 | 30 | 3.7 | 3.7 x 8.2 x 2.4

The new technologically advanced SEC P series desktop power supplies are lighter, quieter, power factor corrected, and have a universal AC input. These premium, high efficiency power supplies are CSA-US listed and CE certified to the newly released IEC 62368-1 safety standard for use all over the globe.

Check your model specification for suitability to Bangladesh.
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 and P Series, can be used with any of the radio cabinets interchangeably.

3 YEAR LIMITED WARRANTY

Cabinet & Power Supply Combination

SEC-1212
SEC-1212BBM
SEC-1223
SEC-1223M

Cabinet Only
Cabinet & Power Supply Combination (Radio not included)

SEC-1223BBM
SEC-1223M

Custom Models

Cabinet & SEC-1212 Power Supply Combination (Radio not included)
Cabinet & SEC-1223 Power Supply Combination (Radio not included)

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!
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Canada

Phone: 1-800-561-5885 | 604-525-3836
Fax: 1-888-814-5210 | 604-525-5221

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Purchase orders: orders@samlexamerica.com
Technical Support: tech@samlexamerica.com
Warranty: warranty@samlexamerica.com

www.samlexamerica.com

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