Product Guide
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.
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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 varies by product. Warranty is limited outside of Continental USA and Canada.

samlexamerica.com

Online Tools
FAQs, Run-Time Calculator, Detailed Product Info, Videos.
EVOLUTION™ SERIES
Pure Sine Wave Inverter/Chargers

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

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

Off-Grid/Commercial Vehicles Backup Power Alternative Energy RV Marine

To AC Loads
Solar Charge Controller
Solar Panels 100W, 150W & 200W

Battery Terminals
Remote Control Jack
Battery Bank
Remote Control
Battery Charger External DC Input (Solar Input)
ON/OFF Button
LED Fault Indicator
LED Status Indicator
To AC Loads
Output to power AC Loads
AC Input for Grid (Prioritized)
AC Input for Generator
Ground Connector
Battery Temperature Sensor Jack (Sensor Included)
EVO™ SERIES INVERTER/CHARGER
(EVO-2212 shown)

Status Relay Contact
Use for GenStart or Fault Condition
Remote Input
Use +12 VDC to turn inverter ON or OFF with Ignition Start, Ignition AUX, or any other remote ON/OFF switch
Low Power 12V Output Source
All Evolution™ Series Inverter/Charger Features

- DC Input for solar charge controller
- Configurable Multi-Stage high current Battery Charger with Equalization
- User configurable Timed or Adaptive algorithm to charge a wide range of battery types, including lithium
- Zero transfer time switching from inverter to grid, synchronized transfer at zero crossing
- 3X Surge power with Power Boost
- Conformally coated circuit boards
- Wide Operating Temperature Range -20 to 60°C / -4 to 140°F

Applications

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

3 YEAR LIMITED WARRANTY

EVO™ Features

- Two separate AC inputs for Grid (priority input) and Generator
- 230V models available*

Built with state of art technology. The 2200W - 4000W inverter/chargers are the reliable choice for multiple applications.

EVO™ F Features

- Lower height clearance for smaller spaces
- GFCI & Hardwired models

1200W pure sine wave inverter with a 60A programmable charger. There is no need to upsize to a larger inverter/charger to handle short duration heavy surge loads, resulting in reduced costs.

EVO™ SP Features

- 48 VDC uses smaller cables, without loss of power
- 120V/240V split phase
- 100A external battery connection connects to a MPPT solar charge controller and a large solar array

A better way to do off-grid. Run 120V or 240V appliances, utilizing the full power of a household electrical panel.

* 230V models are not ABYC compliant.
## EVOLUTION™ SERIES

### Pure Sine Wave Inverter/Chargers

<table>
<thead>
<tr>
<th>MODELS</th>
<th>Input (VDC)</th>
<th>Output (VAC)</th>
<th>Output Power (W)</th>
<th>Battery Charger (A)</th>
<th>Transfer Relay (A)</th>
<th>Weight (lbs)</th>
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<td>60</td>
<td>40</td>
<td>64</td>
<td>12.8 x 16.3 x 8.35</td>
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</tbody>
</table>

* Hard-wireable

### All Evolution™ Series Remote Controls

(sold separately)

- Programmable parameters, profiles, and the ability to monitor status and alarms for EVO™ Inverter/Chargers
- Power ON/OFF, or switch to Standby Mode
- SD card slot holds up to 32GB card to log historic power consumption, inverter function, battery charging activity, faults and the conditions during use
- Comes with 10 M / 33 ft RJ-45 data cable

#### EVO-RC

- 2 rows of 20 character alpha numeric LCD display
- Lightweight plastic enclosure
- Compatible with EVO™ 2200W-4000W Inverter/Chargers, including 230V models

#### EVO-RC-PLUS

- 4 rows of 20 character alpha numeric LCD display
- Robust metal enclosure
- Compatible with all EVO™ Series Inverter/Chargers

### 3 YEAR LIMITED WARRANTY
The EVOLUTION™ Series charge controller expands functionality of the EVO-RC-PLUS as the central display for both your EVO™ inverter/charger and your solar system.

Centralize EVO™ & Solar System

- Install EVO-30AB charge controller close to battery bank to improve efficiency and reduce cable size
- Place the EVO-RC-PLUS remote control in a central location that is easy to access
- Monitor status of both the EVO™ inverter/charger and solar system from ONE remote control display

See page 25 for more features of the EVO-30AB charge controller.

NOTE: Please refer to the manual for detailed installation instructions.
PST SERIES
Pure Sine Wave Inverters

The PST series provides clean pure sine wave power that users have come to depend on for years. Its commercial grade design is suitable for heavy duty loads, long periods of continuous operation and for emergency backup, 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

Optional Remote Controls

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

RC-300
- For use with 1500W - 3000 Watt models
- LCD indicates AC volts, AC amps, frequency, power (watts) and power factor
- 25’ of cable

Use a remote control when you want to hide your inverter or it’s in a hard place to reach.
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 backup
- 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

3 YEAR LIMITED WARRANTY

MODELS

<table>
<thead>
<tr>
<th>Model No.</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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</table>

NOTE: PST-600-48 and PST-1500-48 are not ETL Safety Listed.

* 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

3 YEAR LIMITED WARRANTY

MODELS

<table>
<thead>
<tr>
<th>Model No.</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 (Schuko)</th>
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<td>Optional remote for 3000 Watt models. 25’ cable. Detailed monitoring and remote power operation.</td>
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</table>

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

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

RC-300
PSR RACK MOUNT SERIES
Pure Sine Wave Inverters with Transfer Relay

Inverter core technology built on the robust industry proven Samlex PST Series.
Provide reliable AC power to your communications equipment and minimize equipment failure due to grid instability. Samlex is proud to offer the PSR Series rack mounted inverter with built-in transfer relay.

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.

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
Emergency backup power
UPS system

2 YEAR LIMITED WARRANTY

MODELS

<table>
<thead>
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<th>Model No.</th>
<th>Nominal VDC</th>
<th>Output VAC</th>
<th>Output Power Watts</th>
<th>Surge Power Watts</th>
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<th>Dimensions (inches)</th>
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<td>PSR-1200-24</td>
<td>24</td>
<td>120</td>
<td>1200</td>
<td>2000</td>
<td>12.8</td>
<td>19 x 15.23 x 1.73</td>
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<td>PSR-1200-48</td>
<td>48</td>
<td>120</td>
<td>1200</td>
<td>2000</td>
<td>12.8</td>
<td>19 x 15.23 x 1.73</td>
</tr>
</tbody>
</table>

Critical AC Loads:
- IT Backbone
- DAS
- Dispatch Systems
- Security Systems
- Telecom Systems
- Cellular Repeaters
- Two-way Radio Base Stations & Repeaters

24V or 48V Battery Bank with Rectifier/Charger

SNMP
Email
Web Browse

Ethernet
RS-232C or USB

NOC
Email
Local CLI
**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)
  - Wide input voltage range

- **Applications**
  - Emergency backup power
  - Mobile offices
  - Recreational vehicles
  - Camping
  - Home electronics: TV, DVD, gaming consoles
  - Tools and appliances
  - Computers, printers

- **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 fan for quiet operation.

<table>
<thead>
<tr>
<th>Model No.</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</td>
<td>115</td>
<td>1000</td>
<td>2000</td>
<td>5.4</td>
<td>8.5 x 11.06 x 3.62</td>
<td>2</td>
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<tr>
<td>NTX-1500-12</td>
<td>12</td>
<td>115</td>
<td>1500</td>
<td>3000</td>
<td>7.8</td>
<td>8.5 x 13.11 x 3.62</td>
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<tr>
<td>NTX-2000-12</td>
<td>12</td>
<td>115</td>
<td>2000</td>
<td>4000</td>
<td>8.6</td>
<td>8.5 x 13.11 x 3.62</td>
<td>2</td>
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<tr>
<td>NTX-3000-12*</td>
<td>12</td>
<td>115</td>
<td>3000</td>
<td>6000</td>
<td>12.0</td>
<td>8.5 x 17.75 x 3.62</td>
<td>1</td>
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<tr>
<td>NTX-RC</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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

**NTX-RC Remote Control** included with every inverter.
- Power ON/OFF
- 16’ cable with RJ45 connector
- Display Indicates: Input voltage, Output power, Input fault, Output fault
- Also sold separately
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
- Comes with a USB charging port

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

2 YEAR LIMITED WARRANTY

MODELS

<table>
<thead>
<tr>
<th>Model No.</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</td>
<td>115</td>
<td>350</td>
<td>700</td>
<td>2.0</td>
<td>8.86 x 6.10 x 2.32</td>
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<td>Yes</td>
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<tr>
<td>SSW-600-12A</td>
<td>12</td>
<td>115</td>
<td>600</td>
<td>1200</td>
<td>2.4</td>
<td>10.0 x 6.10 x 2.32</td>
<td>2</td>
<td>Yes</td>
</tr>
</tbody>
</table>
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

2 YEAR LIMITED WARRANTY

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 NEMA5-15R 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

---

**MODELS**

<table>
<thead>
<tr>
<th>Model No.</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>
<td>1</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>1.30</td>
<td>6.1 x 6.0 x 2.2</td>
<td>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 6.6 x 2.4</td>
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<tr>
<td>SAM-1000-12</td>
<td>12</td>
<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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<tr>
<td>SAM-1500-12</td>
<td>12</td>
<td>115</td>
<td>1500</td>
<td>3000</td>
<td>7.10</td>
<td>7.95 x 11.14 x 3.3</td>
<td>2</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>
<td>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>
<td>3</td>
</tr>
<tr>
<td>SAM-RC Remote Control for use with 1000W to 3000W models.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

* Comes with 12V power plug
† Comes with battery clamps

---

**SAM-100-12**

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

---

**SAM-RC Remote Control**
- Power ON/OFF
- 16' cable with RJ45 Connector
- Bar Meter Monitor for battery charge level and output power
- LED indicator for voltage, temperature and overload protection.
- Sold separately
SAM-1500C-12
Modified Sine Wave Inverter/Charger

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
- Backup power systems
- Remote shelters
- 12V Battery charging
- 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

<p>| MODELS |
|------------------------|---------|-------------------|--------|------|----------------|------------------|</p>
<table>
<thead>
<tr>
<th>Model No.</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 (NEMAS-15R)</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>
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</tr>
</tbody>
</table>
STS-30
Transfer Switch

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

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
- Recreational vehicles, camping
- Automotive
- Telecommunication
- Field work/construction sites

2 YEAR LIMITED WARRANTY

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

Primary AC power
Drawn from electric utility, shore power or generator.

Backup power
Provided by inverter powered from batteries, and charged by a battery charger.

MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
</tr>
</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>
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</tbody>
</table>

Battery Charger

30 Amp AC Input From Utility (shore power or generator)

Transfer Switch

AC Output to 30 Amp Breaker Panel

Battery Bank

AC Input From Inverter

Inverter

NOTE: Please refer to the manual for detailed installation instructions.
INVERTER ACCESSORIES
Installation Kits

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

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

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 SERIES

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>DC-1000-KIT</td>
<td>AWG#4</td>
<td>MRBF-100 100A</td>
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<tr>
<td>DC-2000-KIT</td>
<td>AWG#2</td>
<td>MRBF-200 200A</td>
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<tr>
<td>DC-2500-KIT</td>
<td>AWG#2/0</td>
<td>MRBF-300 300A</td>
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<tr>
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<tr>
<td>DC-3500-KIT</td>
<td>AWG#4/0</td>
<td>CFB2-400 400A</td>
<td>•</td>
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<td>•</td>
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</tbody>
</table>

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:

a) Specifications are subject to change without notice.

b) 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.
INVERTER ACCESSORIES
Fuses & Circuit Protection

Features

- 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.

MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-FA-100</td>
<td>100 Amps Fuse Bar Assembly</td>
</tr>
<tr>
<td>DC-FA-200</td>
<td>200 Amps Fuse Bar Assembly</td>
</tr>
<tr>
<td>DC-FA-300</td>
<td>300 Amps Fuse Bar Assembly</td>
</tr>
<tr>
<td>DC-FB-2</td>
<td>Double Pole Fuse Bar with Insulating Cap (no fuse)</td>
</tr>
<tr>
<td>MRBF-100</td>
<td>100 Amps Replacement Fuse</td>
</tr>
<tr>
<td>MRBF-200</td>
<td>200 Amps Replacement Fuse</td>
</tr>
<tr>
<td>MRBF-300</td>
<td>300 Amps Replacement Fuse</td>
</tr>
<tr>
<td>Class T-200</td>
<td>200 Amps Replacement Fuse</td>
</tr>
<tr>
<td>Class T-400</td>
<td>400 Amps Replacement Fuse</td>
</tr>
<tr>
<td>CFB1-200</td>
<td>200 Amps Fuse Block Assembly</td>
</tr>
<tr>
<td>CFB2-400</td>
<td>400 Amps Fuse Block Assembly</td>
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</tbody>
</table>

INVERTER SERIES

<table>
<thead>
<tr>
<th>Inverter Installation Kit Model No.</th>
<th>Cable</th>
<th>Fuse</th>
<th>SSW</th>
<th>NTX</th>
<th>PSE</th>
<th>SAM</th>
<th>EVO™</th>
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</thead>
<tbody>
<tr>
<td>DC-1000-KIT</td>
<td>AWG#4</td>
<td>MRBF-100 100A</td>
<td>SSW-600-32A</td>
<td>NTX-1000/12</td>
<td>NTX-1500/12</td>
<td>NTX-2000/12</td>
<td>PSE-24275A</td>
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<td>DC-2000-KIT</td>
<td>AWG#2</td>
<td>MRBF-200 200A</td>
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<tr>
<td>DC-2500-KIT-XL</td>
<td>AWG#2/0</td>
<td>MRBF-300 300A</td>
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<td>DC-3500-KIT</td>
<td>AWG#4/0</td>
<td>CFB2-400 400A</td>
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</tr>
</tbody>
</table>

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:

a) Specifications are subject to change without notice.

b) 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.
SEC UL SERIES
Battery Chargers

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

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.

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 DIP 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 backup systems
Alternative energy systems

2 YEAR LIMITED WARRANTY

SEC-1215UL

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

MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>VDC</th>
<th>Amps</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Temp. Sensor</th>
<th>Half Power Mode</th>
<th>Optional Remote</th>
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</thead>
<tbody>
<tr>
<td>SEC-1215UL</td>
<td>12</td>
<td>15</td>
<td>4.8</td>
<td>8.6 x 8.4 x 3.3</td>
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<td>-</td>
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<tr>
<td>SEC-1230UL</td>
<td>12</td>
<td>30</td>
<td>6.4</td>
<td>11.0 x 8.4 x 3.3</td>
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<td>-</td>
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<td>SEC-1250UL</td>
<td>12</td>
<td>50</td>
<td>9.0</td>
<td>13.03 x 9.6 x 3.82</td>
<td>Yes</td>
<td>Yes</td>
<td>900-RC</td>
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<tr>
<td>SEC-1280UL</td>
<td>12</td>
<td>80</td>
<td>9.0</td>
<td>15.0 x 9.61 x 3.82</td>
<td>Yes</td>
<td>Yes</td>
<td>900-RC</td>
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<tr>
<td>SEC-2415UL</td>
<td>24</td>
<td>15</td>
<td>6.4</td>
<td>11.0 x 8.4 x 3.3</td>
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<tr>
<td>SEC-2425UL</td>
<td>24</td>
<td>25</td>
<td>9.0</td>
<td>13.03 x 9.6 x 3.82</td>
<td>Yes</td>
<td>Yes</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-2440UL</td>
<td>24</td>
<td>40</td>
<td>9.0</td>
<td>15.0 x 9.61 x 3.82</td>
<td>Yes</td>
<td>Yes</td>
<td>900-RC</td>
</tr>
</tbody>
</table>

Model SEC-2440UL has temperature compensated charging and half power mode.
ISOLATOR, GUARDS & MONITORS
Battery Accessories

Battery Guards
- Waterproof
- Maintains battery life
- Prevents damage to connected components
- Can be set to connect/disconnect at several different voltages with jumpers
- Protects against excessive voltage caused by faulty alternators or chargers
- Prevents excessive discharge of batteries
- Automatic voltage detection, 12 VDC or 24 VDC

Battery Monitors
- 12 VDC or 24 VDC programmable monitor
- Displays battery state of charge through LED patterns
- BW-03 monitors 2 batteries

Applications
- Marine
- Automotive
- Recreational & Utility Vehicles
- Renewable energy
- Commercial/Industrial
- Communications

2 YEAR LIMITED WARRANTY

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

Battery Guards

Battery Monitors

Applications

MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Compliance</th>
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<tbody>
<tr>
<td>ACR-160</td>
<td>Automatic Charge Isolator</td>
<td>160</td>
<td>1.0</td>
<td>4.2 x 2.9 x 2.3</td>
<td>-</td>
</tr>
<tr>
<td>BGW-40</td>
<td>Battery Guard</td>
<td>40</td>
<td>0.5</td>
<td>2.8 x 2.4 x 1.3</td>
<td>CE, UKCA, RoHS</td>
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<tr>
<td>BGW-60</td>
<td>Battery Guard</td>
<td>60</td>
<td>0.5</td>
<td>2.8 x 2.4 x 1.3</td>
<td>CE, UKCA, RoHS</td>
</tr>
<tr>
<td>BGW-200</td>
<td>Battery Guard</td>
<td>200</td>
<td>0.6</td>
<td>2.9 x 4.3 x 1.5</td>
<td>CE, UKCA, RoHS</td>
</tr>
<tr>
<td>BW-01</td>
<td>Battery Monitor</td>
<td>-</td>
<td>0.125</td>
<td>2.6 x 2.6 x 0.8</td>
<td>CE</td>
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<tr>
<td>BW-03</td>
<td>Battery Monitor</td>
<td>-</td>
<td>0.2</td>
<td>2.4 x 2.4 x 0.8</td>
<td>CE</td>
</tr>
</tbody>
</table>

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 in 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
Recreational vehicles, camping
Automotive
Telecommunication
Field work/construction sites

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

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

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

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

CUSTOM ORDER
Bulk Solar Panels Available
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
- SM5-KIT Mounting Brackets & Hardware

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

MODELS

<table>
<thead>
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<th></th>
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<tbody>
<tr>
<td>SSP-200-KIT</td>
<td>200W</td>
<td>26.4</td>
<td>26.0 x 59.05 x 1.39</td>
<td>9.97A</td>
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<td>SSP-150-KIT</td>
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<td>26.0 x 58.03 x 1.39</td>
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<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>

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 in 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

Solar Accessories

- SBC-2 Branch Connectors
  Connect panels in parallel. Includes (1) male and (1) female. Use to expand SRV kits with SSP panels.

- MC4-2 Multi-Contact Connectors
  Connect panels in series. Includes (1) male and (1) female.

- SCW-20-2 Connecting Wires
  Connect your panel to a charge controller or to an additional panel. 20’ of cable provided.

- SM5-KIT Mounting Brackets & Hardware
  Secures the solar panel to a flat surface, provides space underneath for cooling.

- ADJ-28 Adjustable Solar Panel Tilt Mount
  Over 30 adjustable settings from 0-90°. Get up to 40% more out of your solar panel.

NOTE: All solar accessories are also sold separately.

Customize or expand your solar system based on your power needs.
SCC & MSK
Solar Charge Controllers

Solar charge controllers regulate current flowing from a solar panel to your batteries and optimize charging.

SCC-1208L
- 8 Amps
- Rated IP65, sealed, splash proof weather resistant
- Automatically turns ON lights when dark and turns OFF during the day
- Wide Operating Temperature Range -20 to 60°C / -4 to 140°F

5 YEAR LIMITED WARRANTY

MSK-10A
- 10 Amps
- 3-stage intelligent Series Type PWM charging
- Voltage and current regulation
- Reverse protection on any combination of solar module and battery
- Programmed for use with sealed GEL batteries
- Automatically detects 12 or 24 Volts
- Optional MSK-TS Temperature Sensor

MSK-20A
- 20 Amps
- 3 stage intelligent Series Type PWM charging
- Automatic detection of 12V/24V
- Electronic protections: overheating, overcharging, over discharge, overload and short circuit
- Reverse protection on any combination of solar module and battery
- Optional MSK-TS Temperature Sensor

2 YEAR LIMITED WARRANTY

### MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Input (VDC)</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCC-1208L</td>
<td>12</td>
<td>8</td>
<td>0.276</td>
<td>3.8 x 1.8 x 1.0</td>
</tr>
<tr>
<td>MSK-10A</td>
<td>12/24</td>
<td>10</td>
<td>0.29</td>
<td>5.46 x 2.73 x 1.46</td>
</tr>
<tr>
<td>MSK-20A</td>
<td>12/24</td>
<td>20</td>
<td>0.76</td>
<td>7.36 x 3.75 x 1.77</td>
</tr>
<tr>
<td>MSK-TS</td>
<td>Temperature Sensor for MSK-10A and MSK-20A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Temperature sensor prevents under/over charging of battery if temperature varies extensively.
SCC & EVO™
Solar Charge Controllers

30 Amp Solar Charge Controller Features
- 30 Amp charging capacity
- Pulse Width Modulation (PWM) series type
- Dual voltage capability (12V/24V batteries)
- Battery equalization
- 8 charge settings for most battery types, including Lithium

SCC-30AB
- Flush mount design
- Digital LCD display indicates battery voltage, PC current, PV watts, daily and accumulated Ah, charging stage and battery temperature
- 30AB-TS Temperature Sensor included

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

5 YEAR LIMITED WARRANTY

MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Input (VDC)</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCC-30AB</td>
<td>12/24</td>
<td>30</td>
<td>0.8</td>
<td>7.48 x 4.25 x 1.38</td>
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<tr>
<td>EVO-30AB</td>
<td>12/24</td>
<td>30</td>
<td>0.8</td>
<td>4.81 x 4.15 x 1.87</td>
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<tr>
<td>30AB-TS</td>
<td>Temperature Sensor for 30A Charge Controllers. 33’ cable.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ensures that batteries are charged to maximum capacity, and are well protected from over-charging.
MSK SERIES
Portable Solar Charging Kits

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

Applications
Emergency Backup Power
Field Work
Cabins
Camping
Marine
Motor Sports
Remote Locations
Recreational Vehicles
Ice Fishing Huts

10 YEAR POWER WARRANTY

What's in Your MSK Kit

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

MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Solar Output</th>
<th>Cell Type</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Charging Power</th>
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<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>59.65 x 24.41 x 1.18</td>
<td>8.52 Amps</td>
</tr>
<tr>
<td>MSK-XLR</td>
<td>2-pin XLR Adapter</td>
<td>sold separately</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSK-EXT</td>
<td>Extension Cable</td>
<td>sold separately</td>
<td>10 meters / 33 feet</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Optional:

- MSK-XLR 2-pin XLR Adapter
- MSK-EXT Extension Cable
SUNCHARGER SERIES
Battery Maintainers

Features
- Maximum efficiency
- Prevents back flow of current from the battery to the panel
- No need for additional Charge Controller
- Semi-flexible panel construction
- Rugged, 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

2 YEAR LIMITED WARRANTY

Maintenance free!
Perfect for maintaining the battery in your RV, Car, Boat, Motorcycle or ATV with the power of the sun!
Plug into any connected 12V power socket to keep your battery from self discharging. Extends the life of your batteries and saves on replacement costs.

<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>
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<tbody>
<tr>
<td>SC-05</td>
<td>12.7 VDC</td>
<td>0.39A</td>
<td>5W</td>
<td>8.03 x 11.22 x 0.52</td>
<td>0.8</td>
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<td>SC-10</td>
<td>12.7 VDC</td>
<td>0.79A</td>
<td>10W</td>
<td>14.11 x 11.22 x 0.52</td>
<td>1.2</td>
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</tbody>
</table>
SDC & STEP SERIES
DC-DC Non-Isolated Converters

Step-Down and Step-Up Converters Features
- Advanced switch mode design
- Compact and light weight
- High efficiency
- Current limiting circuit
- Over-current, over-voltage, short circuit and reverse polarity protection
- Mount in almost any location

SDC Series
- Converts 24 VDC to 12 VDC

STEP Series
- Converts 12 VDC to 24 VDC

2 YEAR LIMITED WARRANTY

MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Input (VDC)</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>
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<tr>
<td>SDC-12</td>
<td>20-32</td>
<td>13.6</td>
<td>12</td>
<td>0.6</td>
<td>3.9 x 3.5 x 1.9</td>
<td>CE</td>
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<td>SDC-15</td>
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<tr>
<td>SDC-23</td>
<td>20-35</td>
<td>13.8</td>
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<td>7.8 x 4.8 x 2.4</td>
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<td>SDC-30</td>
<td>20-32</td>
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<td>2.6</td>
<td>7.0 x 3.5 x 3.6</td>
<td>CE</td>
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<td>STEP 7</td>
<td>9 - 18</td>
<td>24.6 - 25.7</td>
<td>7</td>
<td>0.7</td>
<td>3.0 x 3.5 x 2.0</td>
<td>CE</td>
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<td>24.6 - 25.7</td>
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<td>5.0 x 3.5 x 1.9</td>
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<tr>
<td>STEP 20</td>
<td>9 - 18</td>
<td>24.6 - 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>

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

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

**Features**
- Advanced switch mode design
- Compact and lightweight
- High efficiency
- Current limiting circuit
- Short circuit protected
- ¼” push-on flat pin connectors
- Use with either negative or positive ground systems

**Applications**
- Earth moving equipment
- Heavy trucks
- Buses
- Marine
- Communications

**2 YEAR LIMITED WARRANTY**

**MODELS**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Input (VDC)</th>
<th>Output (VDC)</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
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</thead>
<tbody>
<tr>
<td>IDC-100A-12</td>
<td>9 - 18</td>
<td>12.5</td>
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<td>20 - 35</td>
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<td>1.2</td>
<td>5.9 x 3.5 x 1.9</td>
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<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>
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<td>9 - 18</td>
<td>24.5</td>
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<td>IDC-200A-12</td>
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<td>IDC-200D-12</td>
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<td>16</td>
<td>1.4</td>
<td>6.9 x 3.5 x 1.9</td>
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<td>IDC-200A-24</td>
<td>9 - 18</td>
<td>24.5</td>
<td>8</td>
<td>1.4</td>
<td>6.9 x 3.5 x 1.9</td>
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<tr>
<td>IDC-200B-24</td>
<td>20 - 35</td>
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<td>8</td>
<td>1.4</td>
<td>6.9 x 3.5 x 1.9</td>
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<td>24.5</td>
<td>8</td>
<td>1.4</td>
<td>6.9 x 3.5 x 1.9</td>
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<tr>
<td>IDC-200D-24</td>
<td>60 - 120</td>
<td>24.5</td>
<td>8</td>
<td>1.4</td>
<td>6.9 x 3.5 x 1.9</td>
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<tr>
<td>IDC-360A-12</td>
<td>9 - 18</td>
<td>12.5</td>
<td>30</td>
<td>3.1</td>
<td>7.5 x 5.2 x 3.2</td>
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<tr>
<td>IDC-360B-12</td>
<td>20 - 35</td>
<td>12.5</td>
<td>30</td>
<td>3.1</td>
<td>7.5 x 5.2 x 3.2</td>
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<tr>
<td>IDC-360C-12</td>
<td>30 - 60</td>
<td>12.5</td>
<td>30</td>
<td>3.1</td>
<td>7.5 x 5.2 x 3.2</td>
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<tr>
<td>IDC-360D-12</td>
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<td>12.5</td>
<td>30</td>
<td>3.1</td>
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<td>9 - 18</td>
<td>24.5</td>
<td>15</td>
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<td>IDC-360B-24</td>
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<td>3.1</td>
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<td>IDC-360C-24</td>
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<td>24.5</td>
<td>15</td>
<td>3.1</td>
<td>7.5 x 5.2 x 3.2</td>
</tr>
</tbody>
</table>
SEC SERIES
Switching Power Supplies

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.

SEC-R1 & SEC-R2
Rack Mount Assemblies (sold separately) can be used with all Samlex SEC Series power supply models – including the SEC P Series and the SEC-1223BBM.

SEC-PSPP
Simplify your connection to the SEC power supply with the SEC-PSPP cable assembly. Red and black cables neatly terminated and protected with modular connector on one end and SEC power supply pins on the other end.

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

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

3 YEAR LIMITED WARRANTY

MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</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></td>
<td>120</td>
<td>13.8</td>
<td>10</td>
<td>3.0</td>
<td>7.3 x 8.2 x 2.3</td>
<td>UL, FCC</td>
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<tr>
<td>SEC-1212CE</td>
<td></td>
<td>230</td>
<td>13.8</td>
<td>10</td>
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<td>7.3 x 8.2 x 2.3</td>
<td>CE</td>
</tr>
<tr>
<td>SEC-1223</td>
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<td>120</td>
<td>13.8</td>
<td>23</td>
<td>3.5</td>
<td>7.3 x 8.2 x 2.4</td>
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<td>SEC-1223CE</td>
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<td>230</td>
<td>13.8</td>
<td>23</td>
<td>3.5</td>
<td>7.3 x 8.2 x 2.4</td>
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<tr>
<td>SEC-1235</td>
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<td>120</td>
<td>13.8</td>
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<td>7.3 x 8.2 x 2.4</td>
<td>UL, FCC</td>
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<td>SEC-1235M</td>
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<td>7.3 x 8.4 x 2.4</td>
<td>UL, FCC</td>
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MODELS

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<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
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<tbody>
<tr>
<td>SEC-R1</td>
<td>Rack Mount Assemblies</td>
<td>2.4</td>
<td>19 x 3.5 x 7.75</td>
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<tr>
<td>SEC-R2</td>
<td>Rack Mount Assemblies</td>
<td>3.2</td>
<td>19 x 3.5 x 7.75</td>
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MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Rating</th>
<th>Weight (lbs)</th>
<th>Length (inches)</th>
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<tbody>
<tr>
<td>SEC-PSPP</td>
<td>Power Supply Modular Connector Cable</td>
<td>45A</td>
<td>0.1</td>
<td>10</td>
</tr>
</tbody>
</table>
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.

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

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

3 YEAR LIMITED WARRANTY

Battery Backup Modules
Connect these modules to an AC-DC power supply to provide battery backup 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.

MODELS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Input (VAC)</th>
<th>Output Voltage</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
<th>Compliance</th>
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<tbody>
<tr>
<td>SEC-1223BBM</td>
<td>120</td>
<td>13.8</td>
<td>23</td>
<td>3.4</td>
<td>7.3 x 9.5 x 2.4</td>
<td>UL, FCC</td>
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<tr>
<td>SEC-1223BBM-CE</td>
<td>230</td>
<td>13.8</td>
<td>23</td>
<td>3.4</td>
<td>7.3 x 9.5 x 2.4</td>
<td>CE</td>
</tr>
</tbody>
</table>

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

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
GPS receivers

Automotive displays
Marine displays
DC computers
Lighting systems
OEM applications

2 YEAR LIMITED WARRANTY

MODELS

<table>
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<tr>
<th>Model No.</th>
<th>Input (VAC)</th>
<th>Output (VDC)</th>
<th>Amps (A)</th>
<th>Weight (lbs)</th>
<th>Dimensions (inches)</th>
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<tbody>
<tr>
<td>SEC-40BRM</td>
<td>120</td>
<td>13.8</td>
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<td>20.5</td>
<td>19 x 15.9 x 3.6</td>
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<td>SEC-40BRM-230</td>
<td>230</td>
<td>13.8</td>
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<td>20.5</td>
<td>19 x 15.9 x 3.6</td>
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<tr>
<td>SEC-100BRM-230</td>
<td>230</td>
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<td>19 x 15.9 x 3.6</td>
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<tr>
<td>SEC-2450BRM</td>
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<td>24.0</td>
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<td>25.0</td>
<td>19 x 15.9 x 3.6</td>
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MODELS

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<tr>
<th>Model No.</th>
<th>Input (VAC)</th>
<th>Output (VDC)</th>
<th>Amps (A)</th>
<th>Specific to</th>
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<tbody>
<tr>
<td>SEC-2012MPSB</td>
<td>120</td>
<td>14.2</td>
<td>20</td>
<td>SEC-40, 60, 80 &amp; 100 BRM (120VAC)</td>
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<tr>
<td>SEC-1024MPSB</td>
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<td>28</td>
<td>10</td>
<td>SEC-2450BRM</td>
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<tr>
<td>SEC-2012MPSB-230</td>
<td>230</td>
<td>14.2</td>
<td>20</td>
<td>SEC-40, 100BRM-230</td>
</tr>
</tbody>
</table>
SEC P SERIES
Switching Power Supplies

The 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 cULus listed and CE certified to the IEC 62368-1 safety standard for use all over the globe.

Features

- Universal Input: 100 to 240 VAC, 50/60 Hz
- Power Factor Corrected
- Complies 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

3 YEAR LIMITED WARRANTY
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.

Cabinets fit all our Power Supplies, including P Series.*

---

**3 YEAR LIMITED WARRANTY**

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*Exception: SEC-1223BBM & SEC-1223BBM-CE with the 12450-K cabinet.

---

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

Let us know if you are getting requests for a Radio Cabinet we don’t currently offer!
## BASE STATION COMBINATIONS

Cabinets & Power Supplies

<table>
<thead>
<tr>
<th></th>
<th>Cabinet Only</th>
<th>Cabinet &amp; SEC-1212</th>
<th>Cabinet &amp; SEC-1223</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Harris (M/A Com) Radio Models</strong></td>
<td></td>
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</tr>
<tr>
<td>M7300, MS300, XG-75M</td>
<td>12400-H</td>
<td>–</td>
<td>SEC-1223-M7300</td>
</tr>
<tr>
<td>M7100</td>
<td>12170-H</td>
<td>–</td>
<td>SEC-1223-M7100</td>
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<tr>
<td>HDM150</td>
<td>12440-H</td>
<td>–</td>
<td>SEC-1223-HYT</td>
</tr>
<tr>
<td>XG-25M, XG-75M, XG-100M, M7300, MS300</td>
<td>12480-H</td>
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<td>SEC-1223-XG</td>
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<tr>
<td><strong>Hytera Radio Models</strong></td>
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<tr>
<td>MD78X Series</td>
<td>12440-H</td>
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<td>SEC-1223-HYT</td>
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<tr>
<td>MD61X</td>
<td>12490-H</td>
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<tr>
<td>HK78X</td>
<td>12492-H</td>
<td>–</td>
<td>SEC-1223-HYT2</td>
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<tr>
<td><strong>Icom Radio Models</strong></td>
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<tr>
<td>IC-A110, IC-F1010/F2010, IC-F1610/F2610</td>
<td>12110-I</td>
<td>SEC-1212-IC1</td>
<td>SEC-1223-IC1</td>
</tr>
<tr>
<td>IC-F310, 320, 410, 420, 510, 520, 610, 620</td>
<td>12120-I</td>
<td>SEC-1212-IC2</td>
<td>SEC-1223-IC2</td>
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<tr>
<td>IC-F110S/F210S, IC-F112S/F221S, IC-F121/F221, F5121, F6121, F5011, F6011, F6021, IC-2820H, ID-880H-05</td>
<td>12200-I</td>
<td>SEC-1212-IC3</td>
<td>SEC-1223-IC3</td>
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<tr>
<td>IC-F5061/IC-F6061, IC-F5063/IC-F6063, A120</td>
<td>12333-I</td>
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<td>SEC-1223-IC4</td>
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<tr>
<td>IC-F5400D/F6400D/7500</td>
<td>12540-I</td>
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<td><strong>Kenwood Radio Models</strong></td>
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<td>TK-6110</td>
<td>12270-K</td>
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<td>TK-7160, TK-8160</td>
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<tr>
<td>(these models also fit with 12450-K)</td>
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</tr>
<tr>
<td><strong>Motorola Radio Models</strong></td>
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</tr>
<tr>
<td>SM50, SM120, M1225, GTX, CM200, CM300, CM200D, CM3000, DM400, XPR2500, DM1600</td>
<td>12060-M</td>
<td>SEC-1212-SM</td>
<td>SEC-1223-SM</td>
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<tr>
<td>CDM750, CDM1250, CDM1550</td>
<td>12220-M</td>
<td>SEC-1212-CDM</td>
<td>SEC-1223-CDM</td>
</tr>
<tr>
<td>MOTOTRBO XPR4550, XPR4350, XPR4380, XPR6150, DGM6100</td>
<td>12337-M</td>
<td>SEC-1212-MOTOTRBO</td>
<td>SEC-1223-MOTOTRBO</td>
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<tr>
<td>MOTOTRBO XPR5000 Series, DGM 5000, 5500, 8000, 8500, DM4000</td>
<td>12430-M</td>
<td>SEC-1212-MT-XPR5000</td>
<td>SEC-1223-MT-XPR5000</td>
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<tr>
<td>XTL 1500, XTL 2500 Mid Power, XTL 5000 Mid Power, APX 6500/7500/8500 with 5 Control Head Mid Power</td>
<td>12345-M</td>
<td>SEC-1212-XTL-MID</td>
<td>SEC-1223-XTL-MID</td>
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<td><strong>Tait Radio Models</strong></td>
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<td>TM 9300, TM 9400</td>
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<td>SEC-1223-TM</td>
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<td><strong>Vertex Radio Models</strong></td>
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<td>VX2000, VX2500, VX3000, VX3200</td>
<td>12070-V</td>
<td>SEC-1212-VX</td>
<td>SEC-1223-VX</td>
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<tr>
<td>VX4000, VX5000, VX5500/6000 Low Band</td>
<td>12210-V</td>
<td>SEC-1212-VX2</td>
<td>SEC-1223-VX2</td>
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<tr>
<td>VX4100/4200 Series</td>
<td>12260-V</td>
<td>SEC-1212-VX3</td>
<td>SEC-1223-VX3</td>
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<tr>
<td>VX2200, VX2100, EVX-5300/5400, VX4500, VX4600</td>
<td>12280-V</td>
<td>SEC-1212-VX4</td>
<td>SEC-1223-VX4</td>
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<td>VX7D20</td>
<td>12337-M</td>
<td>SEC-1212-MOTOTRBO</td>
<td>SEC-1223-MOTOTRBO</td>
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<tr>
<td>FT-2900</td>
<td>12333-I</td>
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</tr>
</tbody>
</table>

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