samlexamerica®

Power Conversion Products
2017

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

Innovative Product Design, Strict Quality Control, Industry Power Conversion Products, Over 200 Production Models Available.

Table of Contents

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.

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.

www.samlexamerica.com

EVO™ SERIES
Pure Sine Wave ∿ Inverter/Chargers

EVO-3012

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

Design Features

- Two separate AC inputs for Grid (priority input) and Generator
- DC Input for solar Charge Controller
- 3 or 4 stage selectable Battery Charging with Equalization option
- Adaptive algorithm used in Battery Charging to assess battery condition and customize charging to extend battery life
- Zero transfer time switching from inverter to grid, synchronized transfer at zero crossing
- 3X Surge power with Power Boost (large power overload allowances for long periods of time)
- Conformally coated circuit boards
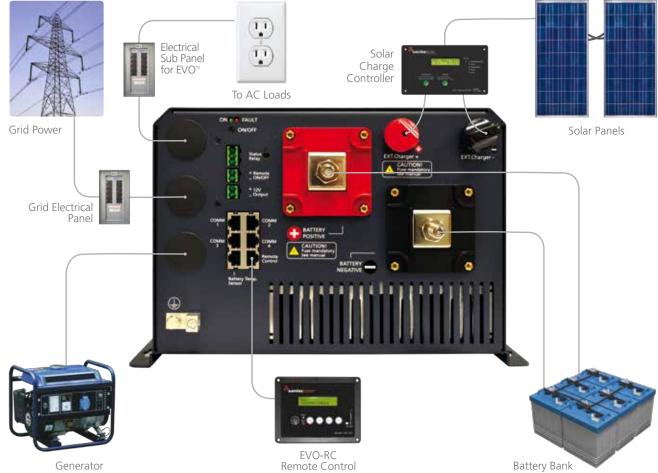- Wide Operating Temperature Range -20 to 60°C / -4 to 140°F

Applications

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

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

2 YEAR LIMITED WARRANTY

Grid Power

Electrical Sub Panel for EVO™

To AC Loads

Solar Charge Controller

Solar Panels

Grid Electrical Panel

Generator

EVO-RC Remote Control

Battery Bank

EVO™ Remote Control
(sold separately)

EVO-RC

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

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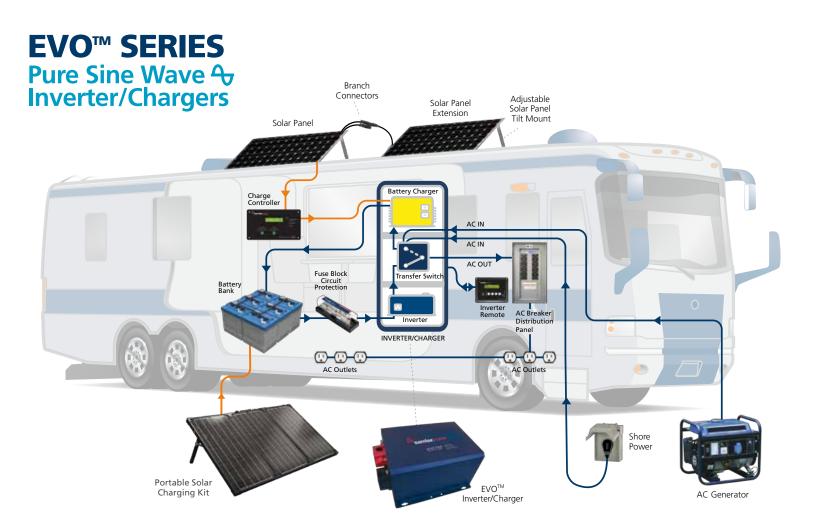
SPECIFICATIONS

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

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EVO™ SERIES
Pure Sine Wave ⌁ Inverter/Chargers

Branch Connectors

Solar Panel

Solar Panel Extension

Adjustable Solar Panel Tilt Mount

Charge Controller

Battery Charger

Battery Bank

Fuse Block Circuit Protection

AC IN
AC IN
AC OUT

Transfer Switch

Inverter

INVERTER/CHARGER

Inverter Remote

AC Breaker Distribution Panel

AC Outlets

AC Outlets

Portable Solar Charging Kit

EVO™ Inverter/Charger

Shore Power

AC Generator

SAM-1500C-12
Modified Sine Wave ⌁ Inverter/Charger

SAM-1500C-12

Design Features

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

Applications

Back-up power systems

12V Battery charging

Remote shelters

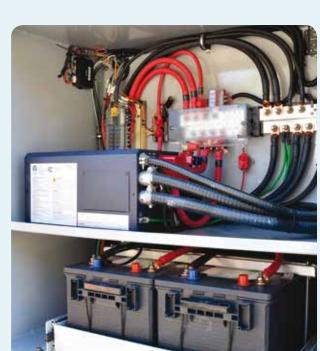RV's, trucks & utility vehicles

2 YEAR LIMITED WARRANTY

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.

EVO™ 12V and 24V models available. Refer to page 5.

REMOTE LOCATIONS
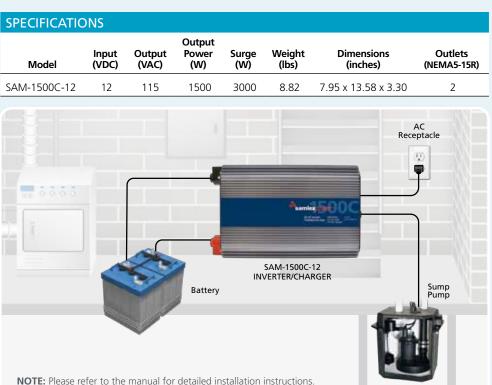
COMMERCIAL VEHICLES

RV/MARINE

BACKUP POWER

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 15

DC-FA-100

SPECIFICATIONS

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

AC Receptacle

SAM-1500C-12 INVERTER/CHARGER

Battery

Sump Pump

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

samlexamerica®

PST SERIES
Pure Sine Wave Inverters ⌁

THE POWER YOU NEED

PST-3000-12

PST-150-12

PST-1000-12

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

Design Features

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

Applications

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

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

2 YEAR LIMITED WARRANTY

PST-120-12

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

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

PST-120-12

Optional Remote Controls

RC-15A

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

RC-15A

RC-200

- For use with 1500 and 2000 Watt models
- LCD indicates AC volts, AC amps, frequency, power (watts) and power factor
- 15' of cable

RC-200

RC-300

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

RC-300

SPECIFICATIONS

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets
PST-120-12	13	120	120	-	1.0	4.13 x 7.44 x 1.2	1
PST-150-12	12	120	150	300	2.8	8.31 x 6.1 x 2.58	2
PST-300-12	12	120	300	500	3.46	9.69 x 6.1 x 2.58	2
PST-600-12	12	120	600	1000	5.9	10.87 x 9.37 x 3.23	2
PST-1000-12	12	120	1000	2000	8.8	15.63 x 9.37 x 3.23	2
PST-1500-12*	12	120	1500	3000	15.6	18.43 x 10.35 x 4.16	2
PST-2000-12*	12	120	2000	3500	15.6	18.43 x 10.35 x 4.16	2
PST-3000-12*	12	120	3000	6000	21.6	17.97 x 10.35 x 5.71	2
PST-150-24	24	120	150	300	2.8	8.31 x 6.1 x 2.58	2
PST-300-24	24	120	300	500	3.46	9.69 x 6.1 x 2.58	2
PST-600-24	24	120	600	1000	5.9	10.87 x 9.37 x 3.23	2
PST-1000-24	24	120	1000	2000	8.8	15.63 x 9.37 x 3.23	2
PST-1500-24*	24	120	1500	3000	15.6	18.43 x 10.35 x 4.16	2
PST-2000-24*	24	120	2000	3500	15.6	18.43 x 10.35 x 4.16	2
PST-3000-24*	24	120	3000	6000	21.6	17.97 x 10.35 x 5.71	2
PST-600-48	48	120	600	1000	5.9	10.87 x 9.47 x 3.23	2
PST-1500-48*	48	120	1500	3000	15.6	18.43 x 10.35 x 4.16	2
RC-15A	Optional remote for 600 and 1000 Watt models. Power ON/OFF. LED indicators for overload, over temperature and power. 15' cable.						
RC-200	Optional remote for 1500 and 2000 Watt models. LCD indicates AC volts, AC amps, frequency, power (watts) and power factor 15' cable.						
RC-300	Optional remote for 3000 Watt models. LCD indicates AC volts, AC amps, frequency, power (watts) and power factor. 25' cable.						

NOTE: PST-E Series, 230 VAC available, see page 12.

* Hard-wireable

SSW SERIES
Pure Sine Wave Inverters ⌁

SSW-1000-12A

Design Features

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

Applications

Emergency backup power
Mobile offices
Recreational vehicles
Camping

Home electronics: TV, DVD, gaming consoles
Tools and appliances
Computers, printers

Compliance ETL Safety Listed to UL Standard 458

2 YEAR LIMITED WARRANTY

SR RACK MOUNT SERIES
Pure Sine Wave Inverters ⌁ with Transfer Relay

SR1000-124

Design Features

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

Applications

Telecommunication   UPS system
Emergency backup power

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

230V available by special order.

2 YEAR LIMITED WARRANTY

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

Each kit contains industrial grade 10' cables, a fuse assembly with a replaceable fuse & all of the hardware required to complete your inverter installation in a few easy steps. Kits are available in 4 sizes. See page 15 for more details.

DC-2500-KIT

SPECIFICATIONS

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

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

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

SSW-R1-12B

Two Modes of Operation

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

1. **On-line Mode:**
   AC output power is always provided by inverter. External AC input is in standby.

2. **Off-line Mode:**
   AC output is always provided by the external AC input. Inverter is in standby.

SPECIFICATIONS

Model	Input (VDC)	Output (VAC)	Watts (W)	Output Power (W)	Weight (lbs)	Dimensions (inches)
SR1000-124	24	120	1000	2000	12.8	19 x 15.6 x 1.71
SR1000-148	48	120	1000	2000	12.8	19 x 15.6 x 1.71

PST E SERIES (230 VAC)
Pure Sine Wave Inverters ⏚

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

Applications

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

PST-30S-12E

Compliance   CE

2 YEAR LIMITED WARRANTY

CE

PSE SERIES
Modified Sine Wave Inverters ⏚

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

Applications

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

PSE-12125A

2 YEAR LIMITED WARRANTY

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

RC-300

SPECIFICATIONS

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

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

RC-15

SPECIFICATIONS

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

* Hard-wireable

Models PSE-12275A & PSE-24275A
Output AC power is available by means of hardwire connection. A NEMA5-15R receptacle with 15 Amp breaker is also included.

PSE-24275A

samlexamerica®

SAM SERIES
Modified Sine Wave Inverters ⌁

SAM-1000-12

Design Features

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

Applications

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

Compliance ETL Safety Listed to UL Standard 458

2 YEAR LIMITED WARRANTY

INVERTER ACCESSORIES
Installation Kits, Fuse & Circuit Protection

DC-2500-KIT

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

Samlex uses only the highest quality of industrial grade cable. The inherent nature of the design makes the cable suitable to be used as battery cables in automotive and other renewable energy applications.

Design Features

Cable Features:

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

Fuses and Circuit Protection:

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

Applications

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

2 YEAR LIMITED WARRANTY

SAM-100-12

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

SPECIFICATIONS

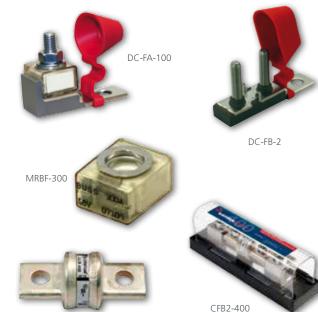| Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets
SAM-100-12*	12	115	100	200	0.30	2.36 x 5.08 x 1.44	1
SAM-250-12*†	12	115	250	500	0.92	4.5 x 5.9 x 1.8	1
SAM-450-12*†	12	115	450	900	1.30	6.1 x 6.0 x 2.2	2
SAM-800-12†	12	115	800	1600	2.91	7.0 x 8.6 x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

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

SAM-RC Remote Control

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

Fuses & Circuit Protection

DC-FA-100

DC-FB-2

MRBF-300

JLLN-400

CFB2-400

SPECIFICATIONS

Kit / Model	Inverter / Description	Fuse Size	Cable Gauge	Cable Length
DC-1000-KIT	12V: 600 - 1000W 24V: 1200 - 2000W 48V: 2400 - 4000W	100 Amps	AWG #4	2 x 10'
DC-2000-KIT	12V: 1000 - 1700W 24V: 2000 - 3400W 48V: 4000 - 6800W EVO-2224	200 Amps	AWG #2	2 x 10'
DC-2500-KIT	12V: 1700 - 2500W 24V: 3400 - 5000W 48V: 6800 - 10000W	300 Amps	AWG #2/0	2 x 10'
DC-3500-KIT	12V: 2500 - 3500W 24V: 5000 - 7000W 48V: 10000 - 14000W EVO-2212, EVO-4024	400 Amps	AWG #4/0	2 x 10'
DC-FA-100	Fuse Assembly, 100 Amps			
DC-FA-200	Fuse Assembly, 200 Amps			
DC-FA-300	Fuse Assembly, 300 Amps			
DC-FB-2	Double Pole Fuse Bar			
MRBF-100	Replacement Fuse, 100 Amps			
MRBF-200	Replacement Fuse, 200 Amps			
MRBF-300	Replacement Fuse, 300 Amps			
CFB2-400	DC Class T Fuse Block with 400 Amp Fuse			
JLLN-400	Class T Replacement Fuse, 400 Amp			

STS-30
Transfer Switch

STS-30

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

Design Features

- Rated capacity of 30 Amps at 120VAC and is suitable for a 30 Amp Utility Power Cord and a Generator of up to 3.6 KVA capacity
- Heavy duty Double Pole Double Throw (DPDT) relay for switching both the Line and Neutral
- Can be installed on the line side of the main breaker panel allowing switching of the entire load or on the load side to only switch dedicated circuits
- DIP Switch to enable time delay when transferring to a generator to provide warm-up time

Applications

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

2 YEAR LIMITED WARRANTY

SEC UL SERIES
Battery Chargers

SEC-1215UL

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

Design Features

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

Applications

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

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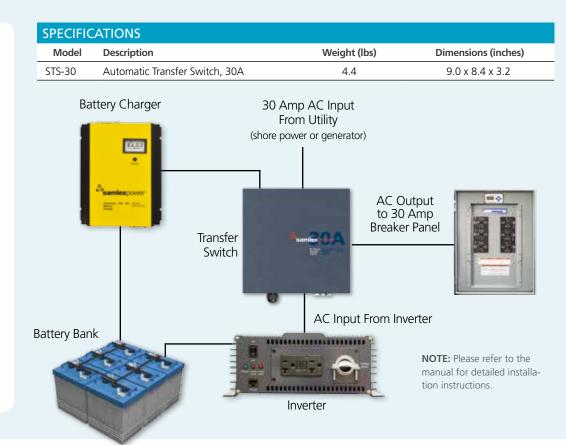
2 YEAR LIMITED WARRANTY

Pre-wired

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

Primary AC power

Is drawn from Electric Utility, Shore Power or Generator.

Back up power

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

SPECIFICATIONS

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

Battery Charger

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

AC Output to 30 Amp Breaker Panel

Transfer Switch

AC Input From Inverter

Battery Bank

Inverter

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

900-RC Remote Control

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

900-RC

SPECIFICATIONS

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

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

SPECIFICATIONS

Model	VDC	Amps	Weight (lbs)	Dimensions (inches)	Optional Remote
BP-1210	12	10	2.2	8.3 x 3.3 x 2.0	n/a

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

samlexamerica®
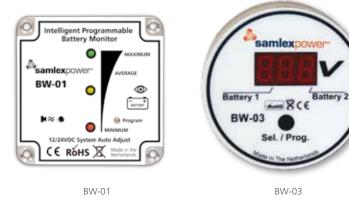
ISOLATOR, GUARDS & MONITORS
Battery Accessories

BG-200

BW-01

BW-03

Design Features

Battery Guards

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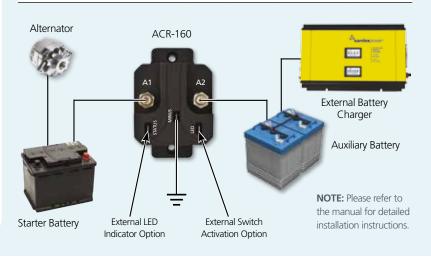
Battery Monitors

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

Applications

Marine
Automotive
Recreational & Utility Vehicles

Renewable energy
Commercial/industrial
Communications

2 YEAR LIMITED WARRANTY   CE

BRM SERIES
Redundant Switching Power Supplies

SEC-40BRM

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

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

Design Features: BRM Series

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

Applications

Two-way radio base stations
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

ACR-160 Automatic Charge Isolator

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

ACR-160

SPECIFICATIONS

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

Alternator
ACR-160
External Battery Charger
Auxiliary Battery
Starter Battery
External LED Indicator Option
External Switch Activation Option
A1   A2

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

N + 1 Redundancy

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

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

SEC-2012MPSB

SPECIFICATIONS

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

SPECIFICATIONS

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

SEC SERIES
Switching Power Supplies

SEC-1235M

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

Design Features

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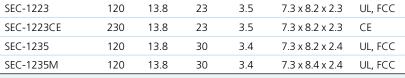- SEC-1235M comes with meter

Applications

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

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

3 YEAR LIMITED WARRANTY

BBM SERIES
Switching Power Supplies with Battery Backup Circuit

SEC-1223BBM

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

Design Features

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

Applications

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

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

3 YEAR LIMITED WARRANTY

SEC-R1 & SEC-R2

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

SEC-R1

SEC-R2

SPECIFICATIONS

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

SPECIFICATIONS

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

SEC-R2 with Power Supply and Radio

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.

RADIO

BBM-12100

POWER SUPPLY

BATTERY

SPECIFICATIONS

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

SPECIFICATIONS

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

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

BASE STATION COMBINATIONS
Cabinets & Power Supplies

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

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

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

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

Cabinet & Power Supply Combination

3 YEAR LIMITED WARRANTY

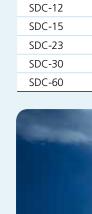|	Cabinet Only	Cabinet & SEC-1212	Cabinet & SEC-1223
Motorola Radio Models			
M100, M120, GM300	12010-M	–	SEC-1223-M/GM
SM50, SM120, M1225, GTX, CM200, CM300, CM200D, CM300D, PM400, XPR2500, DM1600	12060-M	SEC-1212-SM	SEC-1223-SM
CDM750, CDM1250, CDM1550	12220-M	SEC-1212-CDM	SEC-1223-CDM
MOTOTRBO XPR4550,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

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

SDC SERIES
DC-DC Step-Down Converters

SDC-23

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

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

Applications

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

Compliance CE

2 YEAR LIMITED WARRANTY CE

DC-DC Converters can be used to:

1. **Step-Down** voltages where the output voltage is lower than the input voltage.

2. **Step-Up** voltages where the output voltage is higher than the input voltage.

3. **Stabilize** voltages where the nominal input voltages and output voltages are the same.

SPECIFICATIONS

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

IDC SERIES
DC-DC Isolated Converters

IDC-200A-24

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

Applications

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

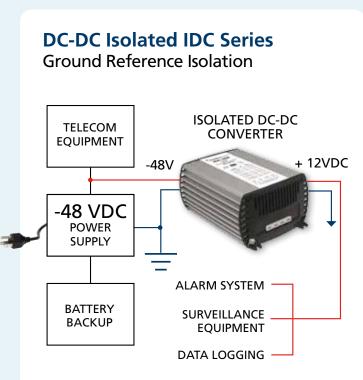### Compliance CE

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

2 YEAR LIMITED WARRANTY CE

STEP, VTC & IDC SERIES
DC-DC Step-Up Converters

IDC-360A-24

STEP 7

Design Features

STEP 7, 10 & 20
- Switch mode design, non-isolated
- Over-current, over-voltage, reverse polarity protection
- ¼" push-on flat pin connectors

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

Applications

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

Compliance CE

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

2 YEAR LIMITED WARRANTY CE

DC-DC Isolated IDC Series
Ground Reference Isolation

SPECIFICATIONS

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

VTC Series

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

VTC-605

SPECIFICATIONS

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

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

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

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samlexamerica®

SRV SERIES
Solar Charging Kits

Includes:
- High efficiency Solar Panel
- SCC-30AB 30A Charge Controller (see page 28 for product features)
- SCW-20-2 Connecting Wires
- SM5-KIT Mounting Brackets & Hardware

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

SSP SERIES
Solar Panel Kits

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

Mix and match panels with charge controllers (see pages 28-29) & accessories for a customized solar system. Can also be used to expand SRV Kits.

MSK SERIES
Portable Charging Kits

Charge Controller

Pre-wired Battery Clamps

Battery Not Included

MSK-90

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

Design Features

- Solar panel is pre-wired with battery clamps for a quick and easy connection, 16' cable
- Turn the panel a few times per day and increase charging by 30%
- Adjustable legs allow for maximum sun exposure
- Folding crystalline panels in anodized aluminum frames, won't rust
- Built-in 10 Amp charge controller manages the charge to the battery and prevents overcharging
- Automatically detects 12 or 24V battery(s), for use with all battery types
- Includes protective carrying case

Applications

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

10 YEAR POWER WARRANTY

SPECIFICATIONS

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

SPECIFICATIONS

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

25 YEAR POWER WARRANTY

SAMLEX BULK SOLAR PANELS are available by special order.

SPECIFICATIONS

Model	Solar Output	Cell Type	Weight (lbs)	Dimensions (inches)	Charging Power
MSK-90	90 Watts	Monocrystalline	21.38	14.2 x 26.25 x 4.5	5.55 Amps
MSK-135	135 Watts	Monocrystalline	28.60	20.3 x 25.0 x 4.5	8.34 Amps

10 Amp Solar Charge Controller

Built-in to the back of the folding solar panel to manage the solar charge and protect the battery.

- 3 stage charge controller
- Indicates battery state of charge
- PWM type
- For use with all lead acid battery types

Solar Accessories

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.

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.

samlexamerica®

SCC-30AB
Solar Charge Controllers

SCC-30AB

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

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

Design Features

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

Applications

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

5 YEAR LIMITED WARRANTY

SMC & SCC SERIES
Solar Charge Controllers

SMC-20

SMC-10

5 YEAR LIMITED WARRANTY

Design Features

SMC-20

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

SMC-10

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

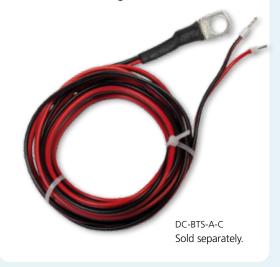
Battery Temperature Sensor

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

DC-BTS-A-C
Sold separately.

SPECIFICATIONS

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

SCC-1208L
8 Amp Charge Controller

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

SCC-1208L

SPECIFICATIONS

Model	Input (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SMC-10	12/24	10	0.33	5.7 x 3.94 x 0.94
SMC-20	12/24	20	0.80	3.75 x 7.36 x 1.77
SCC-1208L	12	8	0.276	3.8 x 1.8 x 1.0

samlexamerica®

STECA SERIES
Solar Charge Controllers

SOLSUM 6.6F

PRS-3030

PR-1515

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

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

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

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

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

MPPT-6000
Maximum Power Point charge controller. Outstanding efficiency along with unique safety features make it a universal top-grade charge controller. Available by Special Order.

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

TAROM 4545
Hybrid charge controller. The Steca Tarom charge controller is the best choice for system sizes of up to 2,400 Wp at three voltage levels (12V, 24V, 48V). Available by Special Order.

2 YEAR LIMITED WARRANTY

SPECIFICATIONS

Model	Input (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SOLSUM 6.6 F	12/24	6	0.33	5.71 x 3.94 x 0.94
SOLSUM 8.8 F	12/24	8	0.33	5.71 x 3.94 x 0.94
PRS-1010	12/24	10	0.76	7.36 x 3.78 x 1.77
PRS-1515	12/24	15	0.76	7.36 x 3.78 x 1.77
PRS-3030	12/24	30	0.76	7.36 x 3.78 x 1.77
PR-1010	12/24	10	0.77	7.36 x 3.78 x 1.73
PR-1515	12/24	15	0.77	7.36 x 3.78 x 1.73
PR-2020	12/24	20	0.77	7.36 x 3.78 x 1.73
PR-3030	12/24	30	0.77	7.36 x 3.78 x 1.73
MPPT-2010	12/24	20	1.98	7.36 x 6.02 x 2.68
MPPT-6000	12/24/48	60	13.0	4.8 x 2.16 x 5.78
PR-2020IP	12/24	20	77.2	4.92 x 11.61 x 13.18
TAROM SERIES	12/24/48		See individual models	
TAROM 4545	12/24	45	1.76	8.58 x 5.27 x 2.55

SUNCHARGER SERIES
Battery Maintainers

SC-10

SC-05

2 YEAR LIMITED WARRANTY

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

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

2 YEAR LIMITED WARRANTY

Maintenance free!

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

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

SPECIFICATIONS

Model	Charging Power, I_{MP}	Watts	Dimensions (inches)	Weight (lbs)
SC-05	0.30A	4.8W	12 x 10 x 0.53	1.2
SC-10	0.56A	9.5W	12 x 15 x 0.53	2.0

samlexamerica®

Head Office
Samlex America, Inc.
103 - 4268 Lozells Ave.
Burnaby, BC V5A 0C6
Canada

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

USA Shipping Warehouses
Kent, WA
Plymouth, MI

Canadian Shipping Warehouse
Delta, BC

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

www.samlexamerica.com

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