

samlexamerica®

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.

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



FAQs, Run-Time Calculator, Detailed Product Info, Videos.

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Customization

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

samlexamerica.com

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.





Vehicles









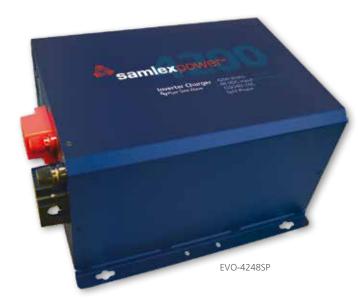






EVOLUTION™ SERIES

Pure Sine Wave ♦ **Inverter/Chargers**



Choose a unit based on the power you need as all EVO™ Inverter/Chargers have a similar footprint.

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 Off-grid Recreational vehicles Cabins

Trucks/Specialty vehicles Rural electrification Alternative energy Emergency backup power

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™ SP Features

- 48 VDC uses smaller cables, without loss of power
- 120V/240 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.













EVOLUTION™ SERIES

Pure Sine Wave ♦ **Inverter/Chargers**



EVO-RC-PLUS

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

MODELS							
Model No.	Input (VDC)	Output (VAC)	Output Power (W)	Battery Charger (A)	Transfer Relay (A)	Weight (lbs)	Dimensions (in)
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-4248SP	48	120 / 240	4200	60	40	64	12.8 x 16.3 x 8.35
EVO-RC Optional Remote Control for use with EVO-2212E, EVO-3012E, EVO-2224E, EVO-4024E						0.4	12.79 x 16.77 x 8.15
EVO-RC-PLUS Optional Remote Control for use with all EVO™ Inverter/Charger models 0.6						0.6	12.79 x 16.77 x 8.15



EXPAND YOUR EVO™ ECO-SYSTEM

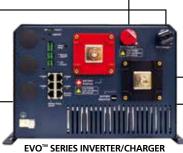
Solar Charge Controller & Remote Control



Features

- EVO-30AB can be used as a stand-alone solar charge controller with an LED display for alarms and the status of charging or;
- Add the EVO-RC-PLUS to make your EVO™ power system manageable by one monitoring device
- Add an EVO™ Series Inverter/Charger for reliable AC power

See page 16 for more features of the EVO-30AB charge controller.



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











Battery



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

CE

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

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

MODELS							
Model No.	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
RC-15	Optiona	I remote fo	or 600 - 200	0W mode	ls.		
RC-300	Optional remote for 3000 Watt models. 25' cable. Detailed monitoring and remote power operation.						



SAM SERIES

Modified Sine Wave Inverters 4



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

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

Includes 12V power plug and battery clamps.



MODELS							
Model No.	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets
SAM-450-12E*†	12	230	450	900	1.30	6.0 x 6.1 x 1.80	1

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



INVERTER ACCESSORIES

Installation Kits, Fuses & Circuit Protection



DC-2500-KIT

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

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

Features

Cable Features:

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

Applications

Solar power systems Emergency backup power Mobile offices Recreational vehicles, camping Automotive

Telecommunication Field work/construction sites Home electronics Tools and appliances Computer and printers

Fuses & Circuit Pro	tection
DC-FA-100	
MRBF-300	DC-FB-2
JLLN-400	CFB2-400

SPECIFICATIONS							
Kit / Model	Inverter / Description	Fuse Size	Cable Gauge	Cable Length			
DC-1000-KIT	PST-60S-12E, PST-100S-24E, PST-150S-24E, PST-60S-48E	100 Amps	AWG #4	2 x 10′			
DC-2000-KIT	PST-100S-12E, PST-200S-24E, PST-300S-24E, EVO-2224E	200 Amps	AWG #2	2 x 10′			
DC-2500-KIT	PST-150S-12E, PST-200S-12E, EVO-4024E	300 Amps	AWG #2/0	2 x 10′			
DC-2500-KIT-XL	PST-150S-12E, PST-200S-12E, EVO-4024E	300 Amps	AWG #2/0	2 x 15′			
DC-3500-KIT	PST-300S-12E, EVO-2212E	400 Amps	AWG #4/0	2 x 10′			
DC-FA-100	100 Amps Fuse Bar As	sembly					
DC-FA-200	200 Amps Fuse Bar As	sembly					
DC-FA-300	300 Amps Fuse Bar As	sembly					
DC-FB-2	Double Pole Fuse Bar with Insulating Cap (no fuse)						
MRBF-100	100 Amps Replacement Fuse						
MRBF-200	200 Amps Replacement Fuse						
MRBF-300	300 Amps Replacemer	nt Fuse					
CFB2-400	400 Amps Replacemer	nt Fuse					
JLLN-400	400 Amps Fuse Block	Assembly					



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.

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 back-up systems Alternative energy systems







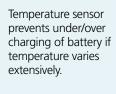
900-RC Remote Control

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

MODELS Half Weight **Dimensions** Temp. **Power** Optional Model No. VDC Amps (lbs) (inches) Remote Sensor Mode SEC-1215UL 12 15 4.8 8.6 x 8.4 x 3.3 SEC-1230UL 12 30 6.4 11.0 x 8.4 x 3.3 -SEC-1250UL 12 50 9.0 13.03 x 9.6 x 3.82 Yes Yes 900-RC SEC-1280UL 12 80 9.0 15.0 x 9.61 x 3.82 900-RC Yes Yes SEC-2415UL 24 15 6.4 11.0 x 8.4 x 3.3 _ SEC-2425UL 24 25 9.0 13.03 x 9.6 x 3.82 Yes Yes 900-RC SEC-2440UL 24 40 9.0 15.0 x 9.61 x 3.82 Yes 900-RC 900-RC Remote Control. Comes with 33' cable.









ISOLATOR, GUARDS & MONITORS

Battery Accessories



Features

Battery Guards

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

Battery Monitors

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

Applications

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

CE

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.



MODELS							
Model No.	Description	Amps (A)	Weight (lbs)	Dimensions (inches)	Compliance		
ACR-160	Automatic Charge Isolator	160	1.0	4.2 x 2.9 x 2.3	-		
BG-40	Battery Guard	40	0.5	3.2 x 2.6 x 1.4	CE		
BG-60	Battery Guard	60	0.5	3.2 x 2.6 x 1.4	CE		
BG-200	Battery Guard	200	0.5	4.5 x 4.7 x 2.4	CE		
BW-01	Battery Monitor	-	0.125	2.6 x 2.6 x 0.8	CE		
BW-03	Battery Monitor	-	0.2	2.4 x 2.4 x 0.8	CE		



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



SRV SERIES Solar Charging Kits



SRV-200-30A

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

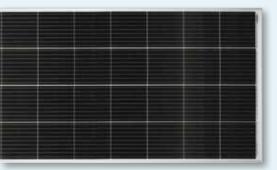
All the parts you need to start using solar in a few simple steps.

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



NEW 200W Panel

MODELS Panel Weight Panel Dimensions Charging Model No. **Solar Panel** (Inches) (lbs) Power SRV-200-30A 200W 26.4 26.0 x 59.05 x 1.39 9.97A SRV-150-30A 150W 26.4 26.0 x 58.03 x 1.39 8.82A SRV-100-30A 100W 17.63 21.73 x 47.25 x 1.39 6.07A



SCW-20-2



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.

SAMLEX BULK SOLAR PANELS are available by special order.

SSP SERIES Solar Panel Kits



Mix and match panels with charge controllers (see pages 15-16) 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				
Model No.	Solar Panel	Panel Weight (lbs)	Panel Dimensions (Inches)	Charging Power
SSP-200-KIT	200W	26.4	26.0 x 59.05 x 1.39	9.97A
SSP-150-KIT	150W	26.4	26.0 x 58.03 x 1.39	8.82A
SSP-100-KIT	100W	17.63	21.73 x 47.25 x 1.39	6.07A

Solar Accessories

(sold separately)



Adjustable Solar Panel Tilt Mount

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



Connectors

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



MC4-2

Multi-Contact Connectors

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



SCW-20-2

Connecting Wires

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



SM5-KIT

Mounting Brackets & Hardware

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













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



SCC & MSK Solar Charge Controllers



SCC-12081



MSK-10A



MSK-20A

Features

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

MSK-10A

- 10 Amps
- LEDs indicate battery state of charge
- Temperature compensation
- 3-stage intelligent Series Type PWM charging
- Voltage and current regulation
- Reverse protection 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 show circuit
- Reverse protection any combination of solar module and battery
- Optional MSK-TS Temperature Sensor



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



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

SCC & EVO™ **Solar Charge Controllers**



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 600W in a 12V system, or up to 1000W in a 24V system under specified conditions.



EVO-30AB

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



MODELS						
Model No.	Input (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)		
SCC-30AB	12/24	30	0.8	7.48 x 4.25 x 1.38		
EVO-30AB	12/24	30	0.8	4.81 x 4.15 x 1.87		
30AB-TS	Temperatu	Temperature Sensor				





MSK SERIES

Portable Solar Charging Kits



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

Features

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

Applications

Emergency Back-up Power Field Work Cabins Camping Marine

Motor Sports Remote Locations Recreational Vehicles Ice Fishing Huts

What's in Your MSK Kit



Trifold Solar Panel



Protective Carrying Case

MODELS						
Model No.	Solar Output	Cell Type	Weight (lbs)	Dimensions (inches)	Charging Power	
MSK-90	90 Watts	Monocrystalline	25.2	40.75 x 25.39 x 1.18	5.68 Amps	
MSK-135	135 Watts	Monocrystalline	35.6	59.65 x 24.41 x 1.18	8.52 Amps	
MSK-XLR	2-pin XLR Adapter (sold separately)					
MSK-EXT	Extension Cable (sold separately) 10 meters / 33 feet					



10 Amp Built-in Charge Controller



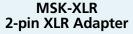
Battery Clamps



2-pin **Adapter**

Optional:







MSK-EXT Extension Cable

SUNCHARGER SERIES Battery Maintainers





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

Applications

Service vehicles Cars Fleet Trucks Marine Motorcycles

ATV's Recreational vehicles

Private aircrafts

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.

MODELS							
Model No.	Max Power Voltage, V _{MP}	Max Power Current, I _{MP}	Max Power	Dimensions (inches)	Weight (lbs)		
SC-05	12.7 VDC	0.39A	5W	8.03 x 11.22 x 0.52	8.0		
SC-10	12.7 VDC	0.79A	10W	14.11 x 11.22 x 0.52	1.2		









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

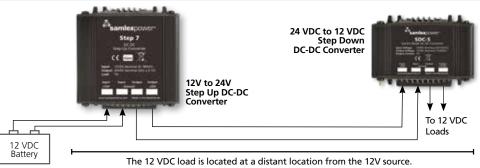
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MODELS						
Model No.	Input (VDC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)	Compliance
SDC-5	20-32	13.8	5.0	0.4	3.5 x 2.7 x 1.9	CE
SDC-12	20-32	13.6	12	0.6	3.9 x 3.5 x 1.9	CE
SDC-15	20-35	13.8	12	2.0	7.8 x 4.8 x 2.4	-
SDC-23	20-35	13.8	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
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

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

Requiring Long DC Path For Distributed **Networks**



IDC SERIES DC-DC Isolated Converters



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
- 1/4" push-on flat pin connectors
- Use with either negative or positive ground systems

Applications

Earth moving equipment Heavy trucks Buses Marine Communications

Two-way radio Lighting systems AM/FM sound systems Instrumentation

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		lated IDC Series erence Isolation
- Car	TELECOM EQUIPMENT -48 VDC POWER SUPPLY	ISOLATED DC-DC CONVERTER + 12VDC
	BATTERY BACKUP	SURVEILLANCE EQUIPMENT DATA LOGGING

MODELS					
Model No.	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



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.



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
- SFC-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







SEC-R1 & SEC-R2

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







SEC-R2 with Power Supply and Radio

MODELS						
Model No.	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 2.4	UL, FCC
SEC-1223CE	230	13.8	23	3.5	7.3 x 8.2 x 2.4	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

MODELS			
Model No.	Description	Weight (lbs)	Dimensions (inches)
SEC-R1	Rack Mount Assemblies	2.4	19 x 3.5 x 7.75
SEC-R2	Rack Mount Assemblies	3.2	19 x 3.5 x 7.75

MODELS				
Model No.	Description	Rating	Weight (lbs)	Length (inches)
SEC-PSPP	Power Supply Modular Connector Cable	45A	0.1	10

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







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



MODELS						
Model No.	Input (VAC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)	Compliance
SEC-1223BBM	120	13.8	23	3.4	7.3 x 9.5 x 2.4	UL, FCC
SEC-1223BBM-CE	230	13.8	23	3.4	7.3 x 9.5 x 2.4	CE

MODELS					
Model No.	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 26).



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.

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

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.



MODELS					
Model No.	Input (VAC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
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

MODELS				
Model No.	Input (VAC)	Output (VDC)	Amps (A)	Specific to
SEC-2012MPSB-230	230	14.2	20	SEC-40, 100BRM-230

SEC P SERIES Switching Power Supplies



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





EFFICIENCY LEVEL $(VI)_{230 \text{ VAC}}$





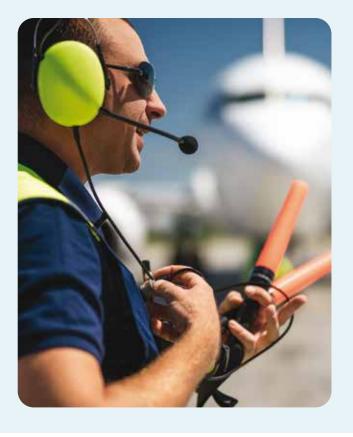
Features

- 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



MODELS					
Model No.	Input (VAC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SEC-1212P	100-240	13.8	11	3.0	7.3 x 8.2 x 2.3
SEC-1223P	100-240	13.8	23	3.4	7.3 x 8.2 x 2.3
SEC-1235P	100-240	13.8	30	3.7	7.3 x 8.2 x 2.3
SEC-1235P-M	100-240	13.8	30	3.7	7.3 x 8.2 x 2.4



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



BASE STATION COMBINATIONS

Cabinets & Power Supplies

Harris (M/A Com) Radio Models			
The state of the s			
M7300, M5300, XG-75M	12400-H	_	SEC-1223-M7300
M7100	12170-H	_	SEC-1223-M7100
(HDM150	12440-H	_	SEC-1223-HYT
XG-25M, XG-75M, XG-100M, M7300, M5300	12480-H	-	SEC-1223-XG
Hytera Radio Models		·	1
MD78X Series	12440-H	_	SEC-1223-HYT
MD61X	12490-H	-	SEC-1223-HYT1
HM78X	12492-H	-	SEC-1223-HYT2
Icom Radio Models		,	,
IC-A110, IC-F1010/F2010, IC-F1610/F2610	12110-l	SEC-1212-IC1	SEC-1223-IC1
IC-F310, 320, 410, 420, 510, 520, 610, 620	12120-l	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-l	SEC-1212-IC3	SEC-1223-IC3
IC-F5061/IC-F6061, IC-F5063/IC-F6063, A120	12333-I	-	SEC-1223-IC4
IC-F5400D/F6400D/7500	12540-I	-	-
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-3720, NX-3820, NX-5700, NX-5800, NX-5900, TK-730, TK-5830, TK-5930, TK-7160H, TK-8160H, VM5000	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
Motorola Radio Models		,	
SM50, SM120, M1225, GTX, CM200, CM300, CM200D, CM300D, PM400, XPR2500, DM1600	12060-M	SEC-1212-SM	SEC-1223-SM
CDM750, CDM1250, CDM1550	12220-M	SEC-1212-CDM	SEC-1223-CDM
MOTOTRBO XPR4550, XPR4350, XPR4380, XPR6150, DGM6100	12337-M	SEC-1212-MOTOTRBO	SEC-1223-MOTOTRBO
MOTOTRBO XPR5000 Series, DGM 5000, 5500, 8000, 8500, DM4000	12430-M	SEC-1212-MT-XPR5000	SEC-1223-MT-XPR5000
XTL 1500, XTL 2500 Mid Power, XTL 5000 Mid Power, APX 6500/7500/8500 with 05 Control Head Mid Power	12345-M	SEC-1212-XTL-MID	SEC-1223-XTL-MID
Tait Radio Models			
TM 9300, TM 9400	12491-T	_	SEC-1223-TM
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
Yaesu Radio Models			
FT-2900	12333-I	-	-

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



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