



samlexamerica®

Power Conversion Products
2015

Our Mission

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

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

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

With diversified manufacturing facilities in China, Taiwan, Europe, Canada and the USA, Samlex products are ISO9000 certified and backed by a minimum 2 year warranty. Innovative product design, strict quality control, as well as responsible before and after sales service, provides customers with superior power conversion products that they can rely on.

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

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Best Customer Service in the Industry

- Fast delivery backed by high inventory levels in US and Canadian warehouses
- Live technical support to assist with product selection, installation and troubleshooting
- No compromise to quality, ISO9000 certified manufacturing
- Minimum 2 year no hassle warranty
- Extensive online product resources including videos, white papers, spec sheets & product manuals

Warranty

Samlex offers a minimum 2 year warranty on all products. Specific warranty terms and warranty period varies by product. Information on the warranty for various products can be obtained by contacting Samlex America Inc., or referring to the product manual (accessible online as well as packaged with the product).

Warranty may be limited outside of Continental USA and Canada.

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Modified Sine Wave Inverters

PSE SERIES



PSE-12125A

These high efficiency modified sine wave DC-AC inverters convert 12VDC or 24VDC to 120VAC, 60Hz.

Features include overload, over-temperature, low input and high input voltage protection. The front-end LED display indicates battery voltage and output power levels.

DESIGN FEATURES

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

APPLICATIONS

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

2 YEAR WARRANTY

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

DC-AC Modified Sine Inverters - PSE Series

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



RC-15 Optional Remote ON/OFF Control (sold separately)

Modified Sine Wave Inverters

SAM SERIES



SAM-1500-12

Durably constructed SAM Series modified sine wave inverters provide reliable power at an affordable price.

DESIGN FEATURES

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

APPLICATIONS

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

COMPLIANCE ETL Safety Listed to UL Standard 458

2 YEAR WARRANTY



SAM-100-12

Easily plugs into any 12V socket in your car, boat, truck or RV. Comes with one AC outlet and a USB charging port that can be used simultaneously to power your favorite electronics.

Now includes 2.1 Amp USB Charging Port to accommodate new smart phones, laptops and tablets.



DC-AC Modified Sine Inverters - SAM Series

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

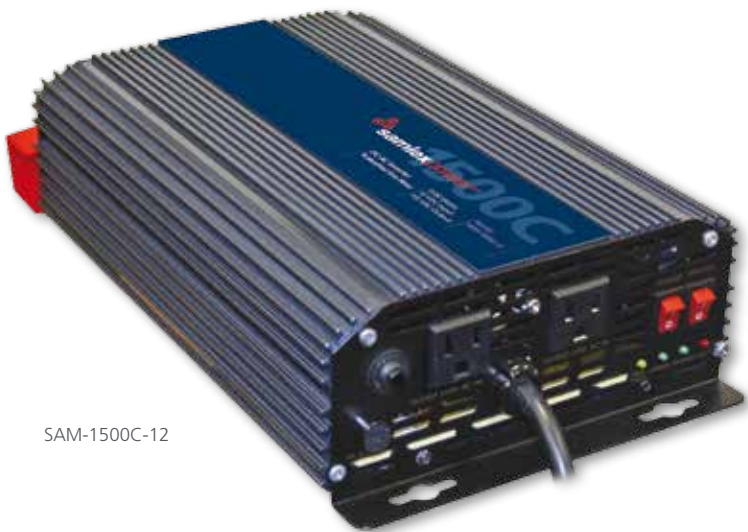


SAM-RC Remote Control

- Power ON/OFF
- 10' cable with RJ45 Connector
- Bar Meter Monitor for battery charge level and output power
- LED indicator lights for:
 - Over & under voltage protection
 - Over temperature protection
 - Overload protection
 - Power save mode

Modified Sine Wave Inverter/Charger

SAM-1500C-12



SAM-1500C-12

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

DESIGN FEATURES

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

APPLICATIONS


- | | |
|-----------------------|---------------------------------|
| Back-up Power Systems | Remote Housing |
| 12V Battery Charging | RV's, Trucks & Utility Vehicles |

2 YEAR WARRANTY

No Interruption of Power...

The transfer switch automatically detects utility or generator power and seamlessly 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.

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



Pure Sine Wave Inverters

SSW SERIES



SSW-1500-12A

Pure Sine Wave power at a Modified Sine Wave price.
Take the comforts of home on the road.

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 | Home electronics:
TV, DVD, gaming consoles |
| Mobile offices | Tools and appliances |
| Recreational vehicles | Computers, printers |
| Camping | |

COMPLIANCE ETL Safety Listed to UL Standard 458

2 YEAR 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 11 for more details.

DC-2000-KIT



DC-AC Pure Sine Wave Inverters - SSW Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets	USB
SSW-350-12A	12	115	350	700	1.5	7.87 x 6.10 x 2.24	2	Yes
SSW-600-12A	12	115	600	1200	2.0	9.06 x 6.10 x 2.24	2	Yes
SSW-1000-12A	12	115	1000	2000	5.7	10.43 x 8.74 x 3.46	2	n/a
SSW-1500-12A	12	115	1500	3000	7.1	12.2 x 8.74 x 3.46	2	n/a
SSW-2000-12A	12	115	2000	4000	8.4	12.2 x 8.74 x 3.46	2	n/a
SSW-R1-12B	Remote Control for use with 1000W, 1500W & 2000W models							

LCD Remote Control included with every 1000W, 1500W & 2000W Model:

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



SSW-R1-12B

Pure Sine Wave Inverters

PST SERIES

Proven extremely reliable in the field for over 10 years. PST's high frequency design provides clean and reliable AC power identical to household electricity. 220 VAC models available by special order.



PST-120-12

Use to operate laptops, portable electronics, small TVs, DVDs, light-duty hand tools and other sensitive electronic devices. Safety approved to UL60601-1, 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 0.5 Amps



DC-AC Pure Sine Wave Inverters - PST Series							
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-155-12A	12	120	150	300	2.9	8.37 x 5.75 x 2.56	1
PST-300-12	12	120	300	500	3.46	9.69 x 5.76 x 2.58	2
PST-600-12	12	120	600	1000	5.9	10.87 x 9.47 x 3.23	2
PST-1000-12	12	120	1000	2000	8.8	15.63 x 9.47 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-300-24	24	120	300	500	3.46	9.69 x 5.76 x 2.58	1
PST-600-24	24	120	600	1000	5.9	10.87 x 9.47 x 3.23	2
PST-1000-24	24	120	1000	2000	8.8	15.63 x 9.47 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
RC-15A	Optional remote for 600 and 1000 Watt models. 15' cable. Power ON/OFF						
RC-200	Optional remote for 1500 and 2000 Watt models. 15' cable. Detailed monitoring & remote power operation						

The Number One Choice for Reliable AC Power



PST-600-12

PST-300-12

DESIGN FEATURES

- Silent Operation – temperature controlled fan reduces energy consumption
- Extremely low interference with other devices
- GFCI protected outlets
- 1500 and 2000W models can be hard-wired
- Low idle power draw
- Commercial grade design suitable for heavy duty loads, long periods of continuous operation & for emergency back up
- Wide operating DC input range compatible with new high voltage alternators
- Optional remote controls available for select models
- Universal Protection Circuit: low voltage, over voltage, over temperature, over load and short circuit

APPLICATIONS

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

COMPLIANCE FCC Approved; ETL Safety Listed to UL Standard 458

2 YEAR WARRANTY



Models PST-1500 and PST-2000

Output AC power is available by means of **hard-wire connection** or dual 3 prong outlets with GFCI protection.

PST-1500-12



Optional Remote Controls

RC-15A

For use with PST-600 & PST-1000:

- Remote push button ON/OFF
- LED indicators for overload, over temperature and power
- 15' of cable

RC-15A



RC-200

For use with PST-1500 & PST-2000:

- LCD indicates AC volts, AC amps, frequency, power (watts) and power factor
- 15' of cable



RC-200

Pure Sine Wave Inverters

PST E SERIES 230 VAC



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

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

DESIGN FEATURES

- Silent Operation – temperature controlled fan reduces energy consumption
- Extremely low interference with other devices
- Low idle power draw
- Clean and reliable AC power identical to household electricity
- Wide operating DC input range: 19.5 to 16.5 VDC
- Universal Protection Circuit: low voltage, over voltage, over temperature, over load and short circuit

APPLICATIONS

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

COMPLIANCE CE

2 YEAR WARRANTY



Optional Remote Control RC-15

For use with 600, 1000, 1500 and 2000 Watt Models:

- ON/OFF Button
- 15' of cable



RC-15

DC-AC Pure Sine Wave Inverters - PST Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets (Schuko)
PST-30S-12E	12	230	300	500	2.9	8.5 x 5.8 x 2.6	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-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
RC-15	Optional remote for 600 - 2000W models.						

Pure Sine Wave Inverters

SA SERIES



SA-1500-124

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

DESIGN FEATURES

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

APPLICATIONS

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

COMPLIANCE

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

2 YEAR WARRANTY

Optional remote controls



S-R5



S-R8



S-R6-12/24

Model SA-3000K

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



SA-3000K-112

DC-AC Pure Sine Wave Inverters - SA Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets	Remote
SA-150-112	12	110	150	200	5.4	8.5 x 5.25 x 2.75	2	Contact Operated
SA-300-112	12	110	300	400	7.7	9.5 x 6.0 x 3.0	2	
SA-600R-112	12	120	600	800	5.4	12.25 x 7.0 x 2.75	2	
SA-1000K-112	12	110	1000	2000	8.8	15.5 x 7.0 x 3.5	2	S-R6-12, S-R8
SA-1500-112	12	120	1500	2000	15.5	16.0 x 11.0 x 4.0	2	S-R5
SA-2000K-112	12	120	2000	4000	19.8	15.5 x 8.25 x 6.25	2	S-R6-12, S-R8
SA-3000K-112	12	120	3000	6000	22.0	17.25 x 8.25 x 6.75	2	S-R6-12, S-R8
SA-150-124	24	110	150	200	5.4	8.5 x 5.25 x 2.75	2	Contact Operated
SA-300-124	24	110	300	400	7.7	9.5 x 6.0 x 3.0	2	
SA-600R-124	24	120	600	800	5.4	12.25 x 7.0 x 2.75	2	
SA-1000K-124	24	110	1000	2000	8.8	15.5 x 7.0 x 3.5	2	S-R6-24, S-R8
SA-1500-124	24	120	1500	2000	15.5	16.0 x 11.0 x 4.0	2	S-R5
SA-2000K-124	24	120	2000	4000	19.8	15.5 x 8.25 x 6.25	2	S-R6-24, S-R8
SA-3000K-124	24	120	3000	6000	22.0	17.25 x 8.25 x 6.75	2	S-R6-24, S-R8

Pure Sine Wave Inverters

COTEK S & SK SERIES



SK1000-112

S & SK Series pure sine wave inverters are high efficiency, microprocessor controlled DC-AC inverters. Converts 12VDC, 24VDC or 48VDC to 120VAC. Models available in various sizes and voltage combinations by request.

Units come with GFCI receptacles (other types of receptacles may be requested).

DESIGN FEATURES

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

APPLICATIONS

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

COMPLIANCE

UL Safety Listed to UL 458 (SK1500 only); FCC Part 15(B), Class A

2 YEAR WARRANTY



COTEK Series Inverters

Various models available ranging from 150W to 3000W.

Input voltages available:

12VDC, 24VDC or 48VDC

Output voltages available:

120VAC or 220VAC

Minimum order quantities and custom pricing may apply - ask your sales rep for details.

DC-AC Pure Sine Wave Inverters - COTEK S & SK Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlet (NEMA5-20R)
S600R-148	48	120	600	800	5.4	11.61 x 7.09 x 2.83	2
SK1000-148	48	120	1000	2000	8.8	13.39 x 7.17 x 3.46	2
S1500-148	48	120	1500	2000	15.5	15.4 x 10.8 x 4.1	2
SK3000-148	48	120	3000	6000	22.0	15.67 x 8.23 x 6.53	2

Inverter Remote Controls: COTEK S & SK SERIES

Model	Description
S-R5	Remote Control for use with S1500 Series Inverters. Comes with 10' cable.
S-R6-12	Remote Control for use with any SK1000-, SK2000- or SK3000- 112 or 212 inverter. Comes with 10' cable.
S-R6-24	Remote Control for use with any SK1000-, SK2000- or SK3000-124 or 224 inverter. Comes with 10' cable.
S-R8	Remote Control for use with SK1000, SK2000 & SK3000 inverters. Comes with 10' cable.

Pure Sine Wave Inverters with Transfer Relay

SR RACKMOUNT SERIES



SR1000-124

SR Series 19" rackmount pure sine wave, space-saving inverters, 1U height.

These inverters include a powerful digital signal processor. Easily programmable with RS-232 interface and Ethernet SNMP interface option available.

220 VAC available by special order.

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; CE

2 YEAR WARRANTY



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.

DC-AC Pure Sine Wave Inverters - Rackmount

Model	Input (VDC)	Output (VAC)	Watts (W)	Output Power (W)	Weight (lbs)	Dimensions (inches)
SR1000-124	24	120	1000	2000	12.7	19 x 13.6 x 1.71
SR1000-148	48	120	1000	2000	12.7	19 x 13.6 x 1.71



SR Series Rackmount

Inverter Installation Kits

PLUG & POWER



DC-3500-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 cable 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:

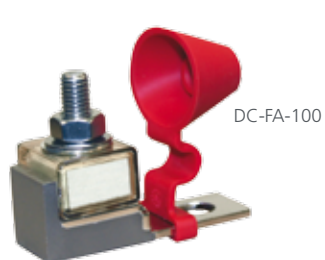
- 100A, 200A and 300A Marine Rated Battery Fuses are provided with DC-1000-KIT, DC-2000-KIT and DC-2500-KIT respectively. The MRBF Fuse with high Ampere Interrupting Capacity (AIC) provides easy, weatherproof and safe short circuit protection.
- 400A Class T Fuse is provided with DC-3500-KIT. Each Class T Fuse has a very high AIC, and is designed for protection against damage due to short circuit conditions in battery cables.

APPLICATIONS

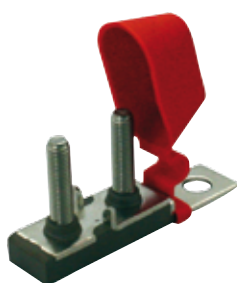
Solar power systems	Telecommunication
Emergency backup power	Field work/construction sites
Mobile offices	Home electronics
Recreational vehicles, camping	Tools and appliances
Automotive	Computer and printers

2 YEAR WARRANTY

FUSES & CIRCUIT PROTECTION



DC-FA-100



DC-FB-2



MRBF-300



JLLN-400



CFB2-400

DC Inverter Installation Kits

KIT	INVERTER	FUSE SIZE (AMPS)	CABLE GAUGE	CABLE LENGTH
DC-1000-KIT	12V, 600-1000W 24V, 1200-2000W	100A	AWG #4	2 x 10'
DC-2000-KIT	12V, 1000-1700W 24V, 2000-3400W	200A	AWG #2	2 x 10'
DC-2500-KIT	12V, 1700-2500W 24V, 3400-5000W	300A	AWG #2/0	2 x 10'
DC-3500-KIT	12V, 2500-3500W 24V, 5000-7000W	400A	AWG #4/0	2 x 10'

Inverter Installation Kits - Fuses & Circuit Protection

Model	Description
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

Transfer Switch

STS-30



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 WARRANTY

Pre-wired

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

Primary AC power

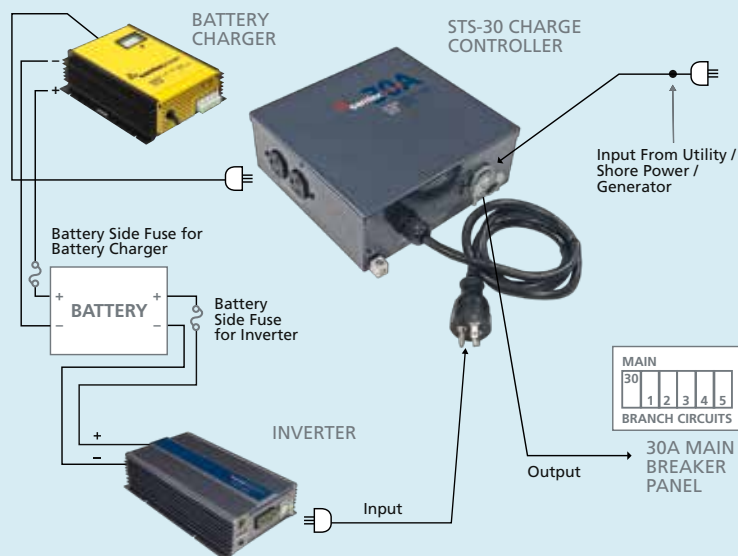
Is drawn from Electric Utility / Shore Power / Generator.

Back up power

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

Transfer Switch

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



Configuration of UPS System

Battery Chargers

SEC-UL & BP SERIES



SEC DESIGN FEATURES

- High efficiency, commercial grade, lightweight, quiet operation
- 2 or 3 stage charging (user selectable)
- 120 or 230 VAC, 50/60 Hz (user selectable)
- For all types of Lead Acid batteries
- Charge loaded or unloaded batteries
- Use as a power supply or DC UPS
- Universal Protection Circuit – short circuit, overload, reverse battery polarity
- Charge 2 to 3 banks of batteries at once – no isolator necessary
- Optional remote LED panel (select models)
- Temperature Compensated Charging Circuit (to prevent under/overcharging of battery if temperature varies extensively) – SEC-1250UL, SEC-1280UL, SEC-2425UL and SEC-2440UL

APPLICATIONS

Automotive	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

2 YEAR WARRANTY

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

900-RC Remote Control

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

SEC-1250UL
SEC-1280UL
SEC-2425UL
SEC-2440UL



Half Power Mode

Allows smaller capacity batteries to be charged safely at a lower current.

Battery Chargers - Automatic

Model	VDC	Amps	Weight (lbs)	Dimensions (inches)	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 9.0 x 4.25	900-RC
SEC-1280UL*	12	80	12.1	15.0 x 9.0 x 4.25	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 9.0 x 4.25	900-RC
SEC-2440UL*	24	40	12.1	15.0 x 9.0 x 4.25	900-RC

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

Battery Chargers - Micro-processor controlled

BP-1210	12	10	2.2	8.3 x 3.3 x 2.0	n/a
---------	----	----	-----	-----------------	-----

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



Battery Backup

BBM SERIES



BBM-1225

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.

DESIGN FEATURES

- Uninterrupted DC power in conjunction with a power supply and a battery
- Solid state, no relay for instantaneous transfer of load between the power supply and the battery
- Use with any Samlex or other 12VDC or 24VDC power supply or converter
- Float charges battery when AC available
- Redundant DC power source

APPLICATIONS

- | | |
|-----------------------|-------------------------|
| Automotive | Communication sites |
| Recreational vehicles | Battery back-up systems |

2 YEAR WARRANTY



Battery Backup					
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



Battery Accessories

ISOLATOR, GUARDS & MONITORS



ACR-160

AUTOMATIC CHARGE ISOLATOR

ACR-160 is a voltage dependant switch that separates or parallels starter and auxiliary battery banks in order to (1) Protect the starter battery from deep discharge, and (2) Recharge the two battery banks. Also known as a Battery Separator, Isolator, or Automatic Charging Relay.

BATTERY GUARD

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

BATTERY MONITOR

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

DESIGN FEATURES

Automatic Charge Isolator

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

Battery Guards

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

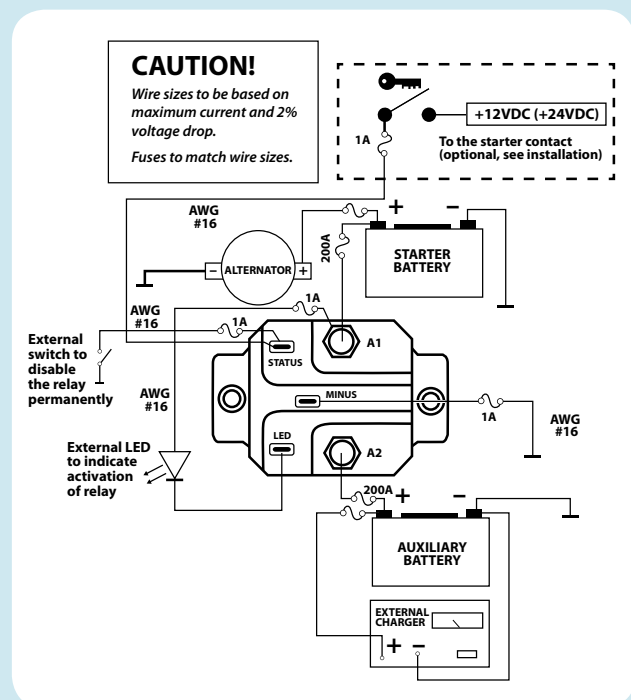
APPLICATIONS

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

COMPLIANCE RoHS; CE

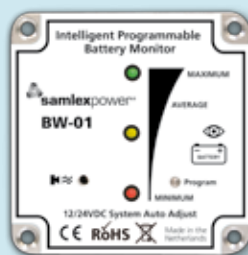
2 YEAR WARRANTY

RoHS **CE**



Battery Accessories

Model	Description	Amps (A)	Weight (lbs)	Dimensions (inches)
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 2.1 x 1.6
BG-60	Battery Guard	60	0.5	3.2 x 2.1 x 1.6
BG-200	Battery Guard	200	0.5	4.5 x 4.7 x 2.4
BW-01	Battery Monitor	-	0.125	2.6 x 2.6 x 0.8
BW-03	Battery Monitor	-	0.2	2.4 x 2.4 x 0.8



BW-01



BG-200

Solar Charge Controllers

SCC-30AB



SCC-30AB

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

A single 30 amp Samlex SCC-30AB charge controller can manage multiple panels up to 500W in a 12V system, or up to 1000W in a 24V system under specified conditions.

Battery Temperature Sensor

Temperature compensated charging ensures that batteries are optimally charged under wide temperature variations.

For use specifically with SCC-30AB Charge Controller.

Battery Temperature Sensor Model: DC-BTS-A-C
Sold separately.



DESIGN FEATURES (PWM, SERIES TYPE)

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

APPLICATIONS

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

5 YEAR WARRANTY

Samlex SCC-30AB Solar Charge Controller

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

Solar Charge Controllers

SMC & SCC SERIES



SMC-20



SMC-10

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 AGL 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

5 YEAR WARRANTY

SCC-1208L

DESIGN FEATURES

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



SCC-1208L

Solar Charge Controllers

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

APPLICATIONS

Off-grid and mobile solar systems	Traffic, security, environment, and other remote monitoring and signaling systems
Rural electrification	Marine & RV
Monitoring systems for the oil & gas industry	Water pumping systems

COMPLIANCE, SCC-1208L MODEL: CE; FCC Part 15(B), Class B; IP65



Solar Charge Controllers

STECA

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

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

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

PR-2020IP – The Steca PR 2020 IP has been specially designed for operation in difficult environments with high salt, 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 4545 – Hybrid charge controller. The Steca Tarom charge controller is the best choice for system sizes of up to 2,400 Wp at three voltage levels (12V, 24V, 48V). Available by Special Order.

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



SOLSUM 6.6F



PRS-3030



PR-1515

2 YEAR WARRANTY

Now available by Special Order:



MPPT-6000



Tarom 4545



Power Tarom Series

Solar Charge Controllers

Model	Input (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SOLSUM Series				
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 Series				
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 Series				
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
STECA				
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 4545	12/24	45	1.76	8.58 x 5.27 x 2.55
POWER TAROM	12/24/48	See individual models		

Solar Charging Kits

SRV SERIES



- Includes:**
- High efficiency Solar Panel
 - 30A Charge Controller – Model: SCC-30AB, see page 19 for product features
 - Connecting Wires
 - Mounting Brackets & Hardware

Solar Panel Kits

SSP SERIES



- Includes:**
- High efficiency Solar Panel
 - Connecting Wires
 - Mounting Brackets & Hardware

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

Solar Charging Kits				
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

Solar Panel Kits				
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

SAMLEX BULK SOLAR PANELS are available by special order on request. Models available range from 50 to 230 Watts. MOQ's Apply.

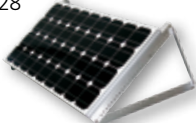
Solar Accessories

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.

MC4-2



Multi-Contact Connectors - connect panels in series. Includes (1) male and (1) female.

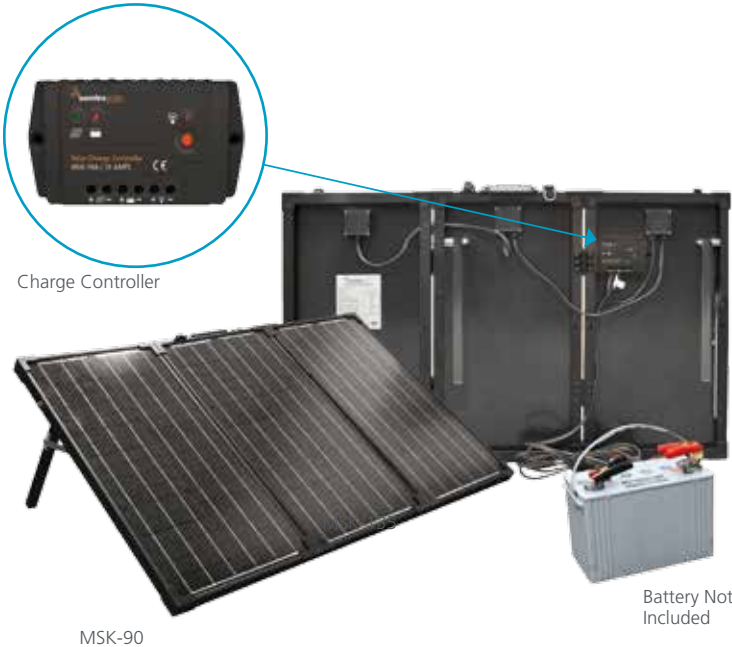
SCW-20-2



Connecting Wires - connect your panel to a charge controller or to an additional panel. 20' of cable provided.

Portable Charging Kits

MSK SERIES



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
- NOTE: Battery is not included

APPLICATIONS

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

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

25 YEAR 80% POWER OUTPUT WARRANTY ON SOLAR PANELS
2 YEAR WARRANTY ON REMAINING COMPONENTS



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

Portable Charging Kits: MSK Series					
Model	Solar Panel	Cell Type	Weight (lbs)	Dimensions (inches)	Charging Power
MSK-90	90 Watts	Monocrystalline	21.38	13.6 x 25.4 x 4.3	5.55 Amps
MSK-135	135 Watts	Monocrystalline	28.60	19.8 x 24.4 x 4.3	8.34 Amps

How much power can I generate per day?

MSK-90: Up to 35 Battery Amp Hours*

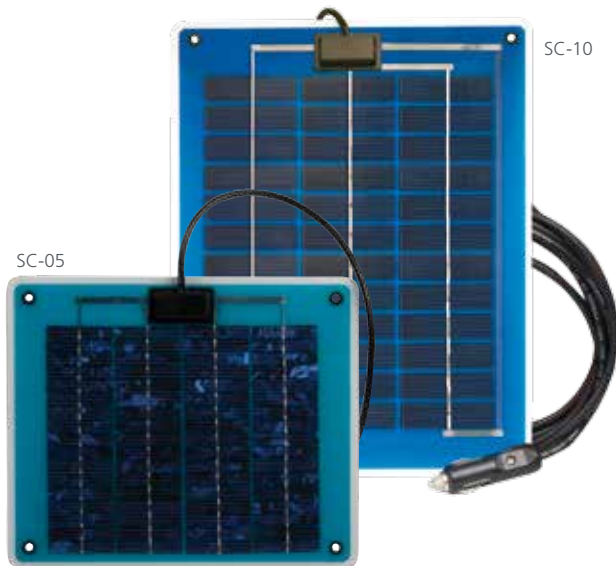
MSK-135: Up to 53 Battery Amp Hours*

* Based on optimal sunlight and turning your panel a few times throughout the day to follow the sun.



Portable Solar Trickle Chargers

SUNCHARGER SERIES



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

DESIGN FEATURES

- Connect through a 12V lighter socket to trickle charge your battery
- Maintenance free
- Extends 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

Recreational vehicles	Cars
Marine	Trucks
ATV's	Motorcycles
Private aircrafts	

2 YEAR WARRANTY



Portable Solar Panels: SunCharger Series

Specifications	Model SC-05	Model SC-10
Type of cell	Polycrystalline	Polycrystalline
Output voltage (at max. power point), V_{MP}	16.0VDC	17.0VDC
Output current (at max. power point), I_{MP}	0.30A	0.56A
Operating temperature	-35°F to +175°F (-37°C to +79°C)	-35°F to +175°F (-37°C to +79°C)
Dimensions (L x W x H), inches	12 x 10 x 0.53	12 x 15 x 0.53
Weight, (lbs)	1.2	2.0

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

Base Station Radio Cabinets & Power Supply Combinations

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

Cabinets are custom fit to specific land mobile radios models, please see reference chart for exact fits.

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

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

OPTIONS



Cabinet & SEC-1212
Power Supply Combination



Cabinet & SEC-1223
Power Supply Combination



Cabinet Only

BASE STATION RADIO CABINET OFFERING

3 YEAR WARRANTY

	Cabinet Only	Cabinet & SEC-1212	Cabinet & SEC-1223
Motorola Radio Models			
SM50, SM120, M1225, GTX, CM200, CM300, CM200D, CM300D, PM400, XPR2500	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
Vertex VX4000, (VX6000 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			
TK880 TK760(G) TK760H, TK762G, TK840, TK860G, TK862G, TK780, TK840, TK940, TK980, TK981	12090-K	SEC-1212-TK2	SEC-1223-TK2
TK7160(H), TK8160(H), TK7102, TK7180, TK8180, TK7360, TK8360, TK7302, TK8302, NX700, NX800, TM-281A	12250-K	SEC-1212-TK3	SEC-1223-TK3
TK-6110	12270-K	n/a	SEC-1223-TK4
HYT Radio Models			
MD-78X Series	12410-H	n/a	SEC-1223-HYT
Harris (M/A Com) Radio Models			
M7300, M5300	12400-H	n/a	SEC-1223-M7300
M7100	12170-H	n/a	SEC-1223-M7100
500M/MDX	12180-H	n/a	SEC-1223-500M
HDM150	12410-H	n/a	SEC-1223-HYT
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, 610	12120-I	SEC-1212-IC2	SEC-1223-IC2
IC-F110S/F210S, IC-F110/F210, IC-F121S/F221S, IC-F121/F221, F5121, F6121, F5011, F6011, IC-2820H	12200-I	SEC-1212-IC3	SEC-1223-IC3
IC-F5061/IC-F6061	12333-I	n/a	SEC-1223-IC4

Switching Power Supply with Battery Backup Circuit

BBM SERIES



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 |
| Plotters | OEM applications |
| GPS receivers | |

COMPLIANCE FCC Part 15(B), Class B; UL Safety Listed

3 YEAR WARRANTY



The SEC-1223BBM will fit into any Samlex Desktop Radio Cabinet.



Desktop Switching Power Supplies - BBM Series

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-230	230	13.8	23	3.4	7.0 x 9.5 x 2.4	EMI, EMC



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

Switching Power Supply

SEC SERIES



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

DESIGN FEATURES

- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Circuit innovations minimize output voltage ripple and RFI
- Input voltage can be set internally to 120VAC or 230VAC
- Available in desktop or rackmount

APPLICATIONS

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

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



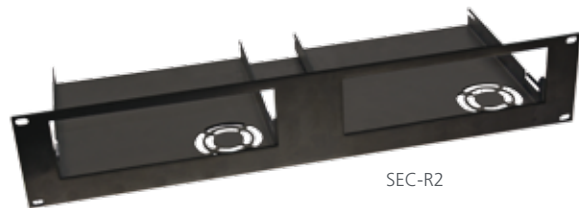
3 YEAR WARRANTY

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

Desktop Switching Power Supplies - SEC Series

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, RoHS
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, RoHS
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
SEC-1223BBM	120	13.8	23	3.4	7.0 x 9.5 x 2.4	UL, FCC
SEC-1223BBM-230	230	13.8	23	3.4	7.0 x 9.5 x 2.4	EMI, EMC
SEC-R1	-	-	-	2.6	19 x 3.5 x 7.75	RoHS
SEC-R2	-	-	-	3.2	19 x 3.5 x 7.75	RoHS

* Comes with meter

Redundant Switching Power Supplies

BRM SERIES



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

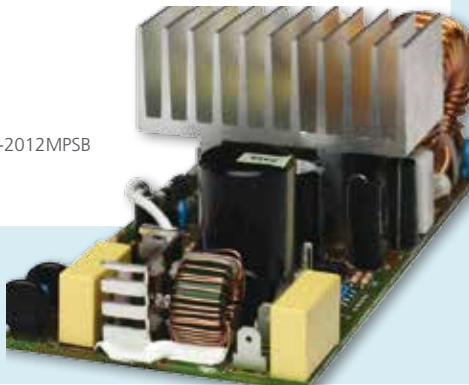
Open frame SMPS modular power supplies. Used as modules in BRM series or can be used independently. Can be operated in parallel.

N + 1 Redundancy

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

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

SEC-2012MPSB



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	Automotive displays
Communication systems	Marine displays
Security systems	DC computers
Test equipment	Lighting systems
Plotters & GPS receivers	OEM applications

COMPLIANCE CSA available in Canada

2 YEAR WARRANTY

Rackmount Switching Power Supplies - BRM Series

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

MPSB Modules

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-1024MPSB-230	230	28	10	SEC-2450BRM-230

DC-DC Step-Down Converters

SDC SERIES



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

APPLICATIONS

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

COMPLIANCE

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

2 YEAR WARRANTY

RoHS 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.

DC-DC Step-Down Converters - SDC Series

Model	Input (VDC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SDC-5	20-32	13.8	5.0	0.4	3.5 x 2.7 x 1.9
SDC-12	20-32	13.8	12	0.6	3.9 x 2.7 x 1.9
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
SDC-60	20-32	13.8	60	2.6	7.5 x 3.5 x 3.6



DC-DC Isolated Converters

IDC SERIES



IDC-200A-24

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

DESIGN FEATURES

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

APPLICATIONS

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

COMPLIANCE

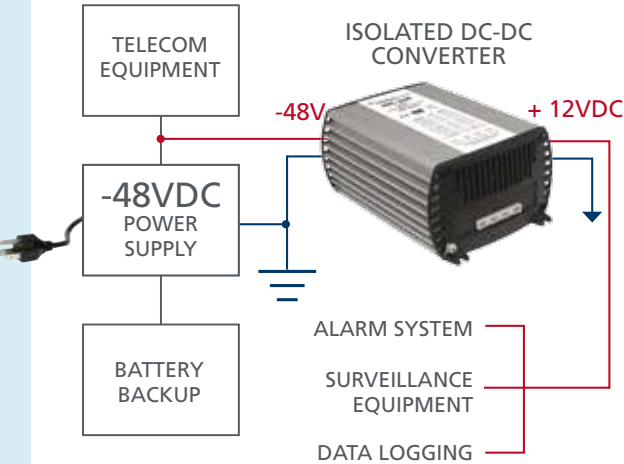
RoHS; CE

2 YEAR WARRANTY

RoHS CE

DC-DC Isolated IDC Series

Ground Reference Isolation



DC-DC Isolated Converters - Communications

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	30-60	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	3.2	7.4 x 5.2 x 3.2
IDC-360B-12	20-35	12.5	30	3.2	7.4 x 5.2 x 3.2
IDC-360C-12	30-60	12.5	30	3.2	7.4 x 5.2 x 3.2
IDC-360D-12	60-120	12.5	30	3.2	7.4 x 5.2 x 3.2
IDC-360A-24	9-18	24.5	15	3.2	7.4 x 5.2 x 3.2
IDC-360B-24	20-35	24.5	15	3.2	7.4 x 5.2 x 3.2
IDC-360C-24	30-60	24.5	15	3.2	7.4 x 5.2 x 3.2

DC-DC Step-Up Converters

STEP, VTC & IDC SERIES



VTC-605

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

DESIGN FEATURES

STEP 7, 10 & 20

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

VTC SERIES

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

IDC SERIES

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

APPLICATIONS

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

COMPLIANCE RoHS; CE (except VTC)

2 YEAR WARRANTY

RoHS CE



IDC-360A-24

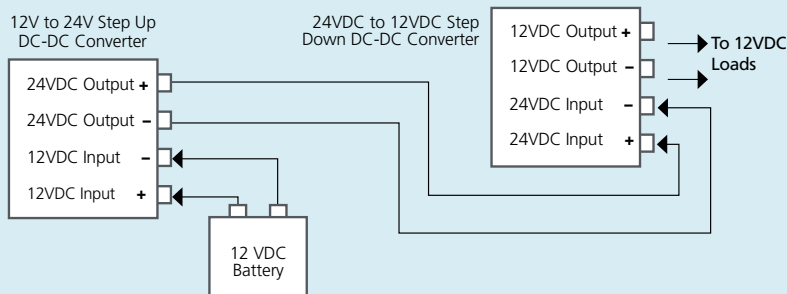


STEP 7

DC-DC Step-Up Converters

Model	Input (VDC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
STEP 7	9-18	24.6 - 25.7	7	0.7	3.0 x 3.5 x 2.0
STEP 10	9-18	24.6 - 25.7	10	0.9	5.0 x 3.5 x 1.9
STEP 20	9-18	24.6 - 25.7	20	1.8	6.0 x 3.7 x 3.6
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
IDC-100A-24	9-18	24.5	4	1.2	5.9 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-360A-24	9-18	24.5	15	3.2	7.4 x 5.2 x 3.2

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



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

Contact Information

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