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Main Electronic Supplies Ltd
**Persunal Solar**

Solar Power doesn’t have to be complicated.

Whether you want to brew a cup of coffee, power up your tools or tune in to your favorite TV program, we can make the process as simple as turning on the switch.

Why use solar? Enjoy the sound of nature rather than a noisy generator or campsite. Maintenance free and good for the environment, your mobile solar system will pay for itself over and over as it preserves your batteries and saves you campsite hook-up fees.

Samlex provides Persunal Solar solutions for everyday people. Easy to install and easy to operate, you don’t need to be technically savvy to start using solar, we’ve got it covered.

Looking for a solar solution for your RV or utility vehicle? Try one of our plug and power kits. Not sure how much power you need? Go to samlexsolar.com and use our easy Solar Sizing Calculator. You tell us what you want to power and we’ll tell you how.

We have all the parts you’ll need to complete your solar system: solar panels, charge controllers, inverters, battery chargers, transfer switches and all of the accessories to go with them.

A family run business since 1991, Samlex is a global supplier of alternative energy products backed by the best customer service in the industry.

Sustainable AC power when you need it, where you need it.

**Samlex is Persunal Solar made simple.**
How an RV Solar System works

Adjustable Solar Mounts
Samlex aluminium adjustable solar mounts allow you to tilt panels for optimal sun exposure, amplifying energy production up to 40%.

Charge Controller
pg. 6

Fuse Block
pg. 12

DC-AC Inverter
Inverter pgs. 7-10

Transfer Switch
pg14

Battery Bank

Battery Charger
pg. 13

Utility Power

You tell us what you want to power and we’ll tell you how. Go to samlexsolar.com and use our easy Solar Sizing Calculator.
Solar Charging Kits

Keep the batteries in your RV or utility vehicle charged and healthy.
With Samlex Solar Charging Kits, you can charge and maintain your RV batteries using sustainable energy from the sun.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SOLAR PANEL</th>
<th>PANEL WEIGHT (KG)</th>
<th>PANEL WEIGHT (LBS)</th>
<th>PANEL DIMENSIONS (MM)</th>
<th>PANEL DIMENSIONS (IN)</th>
<th>CHARGING POWER</th>
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<tr>
<td>SRV-50-KIT</td>
<td>50 W</td>
<td>6.54</td>
<td>14.4</td>
<td>782 x 668 x 35</td>
<td>30.82 x 26.33 x 1.38</td>
<td>3.2 Amps</td>
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<tr>
<td>SRV-85-KIT</td>
<td>85 W</td>
<td>8.18</td>
<td>18</td>
<td>1206 x 552 x 35</td>
<td>47.5 x 21.75 x 1.38</td>
<td>5.2 Amps</td>
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<tr>
<td>SRV-120-KIT</td>
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<td>12.04</td>
<td>26.5</td>
<td>1470 x 666 x 35</td>
<td>57.91 x 26.22 x 1.38</td>
<td>7.4 Amps</td>
</tr>
</tbody>
</table>

What’s in your kit:

1. 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
   - White tempered glass
   - Anodized aluminium frames
   - Resilient to harsh weather conditions
   - 25 yr 80% output warranty

2. Charge Controller
   - Samlex 30 Amp Flush Mount
   - Charge Controllers regulate current and protect your batteries from over-charging.
   - Features of this 4-stage Charger include: LED status indicators, LCD display, battery equalization and 8 charge settings for most battery types.
   - For more detailed product information, see pg. 6.

3. Connecting Wires
   - A pair of weather resistant 20 foot solar panel connecting wires are provided to connect your panel to a charge controller or to an additional panel.
   - One end of each wire is blunt and the other has a pre-assembled male or female multi-contact connector.
   - Specifically designed for use in solar systems.
   - Packaged in pairs; also sold as an accessory.

4. Mounting System Hardware
   - Mounting brackets are provided to secure your solar panel to a flat surface while providing space underneath to facilitate cooling.
   - Constructed in aluminium, the brackets have large surface areas on top for better stability and five available drilling holes on the bottom for convenient installation.
   - Packaged in fours; also sold as an accessory.
Solar Expansion Kits

Need more power? Add another panel to your existing Samlex Solar system.

Add any size panel to your existing panel(s) to increase your total solar power. Total solar power is determined by adding the watts of the panels together.

*A single 30 amp Samlex Charge Controller can manage multiple panels with up to 500 watts of solar power for a 12V system or a 1000 watts of solar power for a 24V system.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SOLAR PANEL</th>
<th>PANEL WEIGHT (KG)</th>
<th>PANEL DIMENSIONS (IN)</th>
<th>PANEL DIMENSIONS (MM)</th>
<th>CHARGING POWER</th>
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<td>30.82 x 26.33 x 1.38</td>
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What’s in your kit:

1 Solar Panel
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- High efficiency
- Water proof connectors
- White tempered glass
- Anodized aluminium frames
- Resilient to harsh weather conditions
- 25 yr 80% output warranty

2 Connecting Wires
A pair of weather resistant 20 foot solar panel connecting wires are provided to connect your panel to a charge controller or to an additional panel. One end of each wire is blunt and the other has a pre-assembled male or female multi-contact connector. Specifically designed for use in solar systems.
Packaged in pairs; also sold as an accessory.

3 Branch & Multi-contact Connectors
Samlex multi-contact (MC4) and branch connectors connect solar panels with a locking system to prevent inadvertent disconnection. Branch connectors connect panels in parallel and MC4s connect panels in series.
Packaged in pairs, one female and one male per package; also sold as accessories.

4 Mounting System Hardware
Mounting brackets are provided to secure your solar panel to a flat surface while providing space underneath to facilitate cooling. Constructed in aluminium, the brackets have large surface areas on top for better stability and five available drilling holes on the bottom for convenient installation.
Packaged in fours; also sold as an accessory.
Charge Controllers

Regulate current flowing from a solar panel to your batteries and prevent over-charging.

A single 30 amp Samlex SCC-30AB charge controller can manage multiple panels with up to 500-1000 Watts of solar power depending on whether you’re using a 12 V or 24 V system. The SCC-30AB is Samlex’s most advanced design, packed with the following features:

SCC-30AB
- Flush Mount
- Micro-processor controlled
- 30 amp charging capacity
- Digital LCD display indicates voltage, current and battery AH
- 8 charge settings for most battery types
- Optional remote temperature sensor
- PWM design
- 4 stage charging with LED indicators
- Dual voltage capability 12V/24V
*The SCC-30AB is Included in every Samlex Solar Charging Kit and is also sold separately.

SOLSUM 6.6F
- Economically priced
- LED indicators show charging stage
- PWM controlled
- Automatic selection of voltage, 12 V or 24 V
- 6 amp charging power
- Automatic load reconnection
- Temperature compensation
- 2 year warranty

PR-1010, PR-1515
- LCD display shows battery state of charge as a percentage and in a gauge
- Programmable
- Automatic selection of voltage, 12 V or 24 V
- Built-in AH counter
- Equalizing charge
- Float charging
- PWM controlled
- Lighting control options during nighttime
- Available in a 10 Amp (PR-1010) or 15 Amp model (PR-1515)
- 2 year warranty

5 Year Warranty
Pure Sine Wave Inverters

Get household AC power while you’re on the road.

Samlex pure sine wave DC to AC inverters convert voltage from 12 or 24V batteries into stable, clean AC current almost identical to the power supplied through your home electrical outlets.

SA Series

**SA Models: 150 – 600 Watts**
- Optional remote power ON-OFF capability
- Isolated input and output
- Advanced microprocessor design
- Protections: overload, short circuit, reverse polarity (fuse), over/under input voltage, over temperature
- Capable of driving highly reactive and capacitive loads
- Tri-color indicators display input, output level & failure status
- True sine wave output (THD 6% Typ.)

**SA Models: 1000 – 3000 Watts**
- Power ON/OFF remote control available (Samlex Models sold separately)
- Isolated input and output
- Load/Thermostatically controlled cooling fan
- Advanced microprocessor design
- Output frequency 50/60 Hz switch selectable
- Power saving mode to conserve energy
- Protections: overload, short circuit, reverse polarity (fuse), over/under input voltage, over temperature
- True sine wave output (THD < 3%)

2 Year Warranty

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUT</th>
<th>OUTPUT</th>
<th>OUTPUT POWER</th>
<th>SURGE</th>
<th>DIMENSIONS (mm)</th>
<th>DIMENSIONS (in)</th>
<th>WEIGHT (kg)</th>
<th>WEIGHT (lb)</th>
<th>OUTLETS</th>
<th>INVERTER INSTALLATION</th>
<th>REMOTE</th>
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</thead>
<tbody>
<tr>
<td>SA-150-112</td>
<td>12 VDC</td>
<td>110 VAC</td>
<td>150 W</td>
<td>200 W</td>
<td>290 x 132 x 72</td>
<td>7.9 x 5.2 x 2.8</td>
<td>2.7</td>
<td>5.4</td>
<td>2</td>
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<td>N/A</td>
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<td>SA-150-124</td>
<td>24 VDC</td>
<td>110 VAC</td>
<td>150 W</td>
<td>200 W</td>
<td>290 x 132 x 72</td>
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<td>SA-300-112</td>
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<td>110 VAC</td>
<td>300 W</td>
<td>400 W</td>
<td>237 x 155 x 72</td>
<td>9.3 x 6.1 x 2.8</td>
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<td>2</td>
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<tr>
<td>SA-300-124</td>
<td>24 VDC</td>
<td>110 VAC</td>
<td>300 W</td>
<td>400 W</td>
<td>237 x 155 x 72</td>
<td>9.3 x 6.1 x 2.8</td>
<td>3.5</td>
<td>7.7</td>
<td>2</td>
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<td>120 VAC</td>
<td>600 W</td>
<td>800 W</td>
<td>295 x 180 x 72</td>
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<td>2.7</td>
<td>5.4</td>
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<td>SA-1000K-112</td>
<td>12 VDC</td>
<td>110 VAC</td>
<td>1000 W</td>
<td>2000 W</td>
<td>383 x 182 x 88</td>
<td>15.1 x 7.2 x 3.5</td>
<td>4</td>
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<td>DC-2000-KIT</td>
<td>S-R6-24, S-R8</td>
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<td>SA-1000K-124</td>
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<td>S-R6-24, S-R8</td>
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<tr>
<td>SA-1500-112</td>
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<td>110 VAC</td>
<td>1500 W</td>
<td>2000 W</td>
<td>390 x 275 x 105</td>
<td>15.4 x 10.8 x 4</td>
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<td>1500 W</td>
<td>2000 W</td>
<td>390 x 275 x 105</td>
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<td>15.5</td>
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<td>S-R5</td>
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<tr>
<td>SA-2000K-112</td>
<td>12 VDC</td>
<td>120 VAC</td>
<td>2000 W</td>
<td>4000 W</td>
<td>422 x 208 x 166</td>
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<td>19.8</td>
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<td>DC-2500-KIT</td>
<td>S-R6-12, S-R8</td>
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<tr>
<td>SA-2000K-124</td>
<td>24 VDC</td>
<td>120 VAC</td>
<td>2000 W</td>
<td>4000 W</td>
<td>422 x 208 x 166</td>
<td>16.6 x 8.18 x 6.53</td>
<td>9</td>
<td>19.8</td>
<td>2</td>
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<tr>
<td>SA-3000K-112</td>
<td>12 VDC</td>
<td>120 VAC</td>
<td>3000 W</td>
<td>6000 W</td>
<td>452 x 208 x 166</td>
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<td>DC-3500-KIT</td>
<td>S-R6-24, S-R8</td>
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</table>
Main Electronic Supplies Ltd

Use Pure Sine Wave for...
- Inductive loads like microwaves and motors – they'll run quieter and cooler
- TVs, radio equipment, fax machines, fans and fluorescent lights; audible and electric noise will be reduced
- Cell phone, portable DVD and laptop chargers
- Air conditioners, refrigerators, heaters and vacuum cleaners
- Ideal for devices with built-in-clocks and other applications that are sensitive to AC voltage irregularity

PST Series
- High efficiency
- Low battery alarm
- Protections: Input low voltage, input over voltage, over temperature, over load, short circuit
- Low idle power draw
- Built-in electronic GFCI (Models 600 – 2000 Watts)
- Comes with pin-type battery cable lugs (Models 600 – 2000 Watts)
- Comes with cigar lighter plug (Models 120 – 300 Watts)

2 Year Warranty

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUT</th>
<th>OUTPUT POWER</th>
<th>SURGE</th>
<th>DIMENSIONS (mm)</th>
<th>DIMENSIONS (in)</th>
<th>WEIGHT (kg)</th>
<th>WEIGHT (lb)</th>
<th>OUTLETS</th>
<th>INVERTER INSTALLATION</th>
<th>REMOTE</th>
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<td>PST-12S-12A</td>
<td>12 VDC</td>
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<td>300 W</td>
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<td>2.9</td>
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<td>Cigar lighter plug</td>
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<td>500 W</td>
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<td>RC-15</td>
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<tr>
<td>PST-60S-24A</td>
<td>24 VDC</td>
<td>600 W</td>
<td>1000 W</td>
<td>280 x 236 x 83</td>
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<td>2000 W</td>
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<td>DC-2000-KIT</td>
<td>RC-15</td>
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<tr>
<td>PST-150S-24A</td>
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<tr>
<td>PST-150S-12A</td>
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<td>3000 W</td>
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<td>13</td>
<td>2</td>
<td>DC-2500-KIT</td>
<td>RC-15</td>
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</tbody>
</table>
InverCharge

A battery charger, an inverter and a transfer switch – all in one device.
Samlex's Generation 4 InverCharge combines three devices into one for convenience and efficiency. Run AC loads like televisions, stereos, microwaves, vacuum cleaners and computers without interruptions; charge your batteries and transfer power sources automatically when connected to utility power.

G4 Series
- Pure sine wave output
- On board LCD display, detachable for use as a remote control
- 3 x high surge capacity for 10 seconds
- Power factor corrected 4 stage battery charging with battery equalization feature
- Seamless transfer between utility, generator and inverter power
- Power save mode with low idle current
- ETL certified to UL standard 458 and 1741

2 Year Warranty

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUT</th>
<th>OUTPUT POWER</th>
<th>SURGE</th>
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<td>G4-2012A</td>
<td>12 V</td>
<td>2000 W</td>
<td>7500 W</td>
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<tr>
<td>G4-2524A</td>
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<td>G4-3524A</td>
<td>24 V</td>
<td>3500 W</td>
<td>10500 W</td>
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</table>

You tell us what you want to power and we’ll tell you how. Go to samlexsolar.com and use our easy Solar Sizing Calculator.
Modified Sine Wave Inverters

Cost-effective and powerful DC - AC inverters.
Power AC devices from your car, truck, boat, RV or solar system.

Use Modified Sine Wave for...
- Heavy duty power tools
- Water and air pumps, air compressors
- Older televisions, VCRs and game systems
- Incandescent lighting
- Kitchen appliances such as toasters, blenders, hot plates and kettles

SAM Series
- USB Charging Port +5 VDC, 500 mA (Models 100 – 800 Watts only)
- Compact Design
- Load Controlled Cooling Fan
- Low Battery Input Alarm
- Universal Protection Circuit: Thermal, Battery, Overload, Short Circuit, Earth Fault
- Soft Start Technology
- Cool Surface Technology
- Power Save Mode
- Low Interference Technology
- ETL certified to UL458

2 Year Warranty

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<tr>
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<th>INPUT</th>
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<th>DIMENSIONS (mm)</th>
<th>DIMENSIONS (in)</th>
<th>WEIGHT (kg)</th>
<th>WEIGHT (lb)</th>
<th>OUTLETS</th>
<th>INVERTER INSTALLATION</th>
<th>USB PORT</th>
<th>REMOTE PORT</th>
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</thead>
<tbody>
<tr>
<td>SAM-100-12</td>
<td>12 VDC</td>
<td>100 W</td>
<td>200 W</td>
<td>130 x 64 x 39</td>
<td>5.1 x 2.5 x 1.5</td>
<td>0.13</td>
<td>0.3</td>
<td>1</td>
<td>Cigar lighter plug</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>SAM-250-12</td>
<td>12 VDC</td>
<td>250 W</td>
<td>500 W</td>
<td>150 x 114.4 x 46</td>
<td>5.9 x 4.5 x 1.8</td>
<td>0.42</td>
<td>0.92</td>
<td>1</td>
<td>Cigar lighter plug</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>SAM-450-12</td>
<td>12 VDC</td>
<td>450 W</td>
<td>900 W</td>
<td>151 x 154 x 56.5</td>
<td>6.0 x 6.1 x 2.2</td>
<td>0.6</td>
<td>1.3</td>
<td>2</td>
<td>Cigar lighter plug</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>SAM-800-12</td>
<td>12 VDC</td>
<td>800 W</td>
<td>1600 W</td>
<td>218 x 180 x 59</td>
<td>8.6 x 7 x 2.4</td>
<td>1.32</td>
<td>2.91</td>
<td>2</td>
<td>N/A</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>SAM-1000-12</td>
<td>12 VDC</td>
<td>1000 W</td>
<td>2000 W</td>
<td>250 x 180 x 59</td>
<td>8.6 x 7 x 2.4</td>
<td>1.69</td>
<td>3.72</td>
<td>2</td>
<td>DC-1000-KIT</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>SAM-1500-12</td>
<td>12 VDC</td>
<td>1500 W</td>
<td>3000 W</td>
<td>283 x 202 x 84</td>
<td>11.4 x 7.9 x 3.3</td>
<td>3.2</td>
<td>7.1</td>
<td>2</td>
<td>DC-2000-KIT</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>SAM-2000-12</td>
<td>12 VDC</td>
<td>2000 W</td>
<td>4000 W</td>
<td>345 x 202 x 84</td>
<td>13.58 x 7.9 x 3.3</td>
<td>3.9</td>
<td>8.5</td>
<td>3</td>
<td>DC-2500-KIT</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>SAM-3000-12</td>
<td>12 VDC</td>
<td>3000 W</td>
<td>6000 W</td>
<td>420 x 202 x 84</td>
<td>16.5 x 7.9 x 3.3</td>
<td>5.3</td>
<td>11.5</td>
<td>3</td>
<td>DC-3500-KIT</td>
<td>no</td>
<td>yes</td>
</tr>
</tbody>
</table>
Inverter Remotes

Control your inverter from a distance with these convenient remotes.

Each Samlex inverter remote is designed for use with a specific DC-AC inverter and offers the following control features.

**S-R5**
- 25 feet of wire included
- Convenient status monitoring
- Push button system ON/OFF
- Power save Enable/Disable Activation
- For use with the following inverters:
  SA-1500-112
  SA-1500-124

**S-R6-12, S-R6-24**
- Multi-level LED display shows battery voltage and output power
- All inverter controllable functionality can be accessed from this remote
- Remote override function
- Ignition lockout option
- 25 feet of wire included
- Easy to mount
- For use with the following inverters:
  SA-1000K-112
  SA-2000K-112
  SA-3000K-112
  SA-1000K-124
  SA-2000K-124
  SA-3000K-124

**S-R8**
- 25 feet of wire included
- Convenient status monitoring
- Push button system ON/OFF
- Remote override function
- Ignition lockout option
- For use with the following inverters:
  SA-1000K-112
  SA-2000K-112
  SA-3000K-112
  SA-1000K-124
  SA-2000K-124
  SA-3000K-124

**RC-15**
- 25 feet of wire included
- Convenient status monitoring
- Push button system ON/OFF
- For use with Samlex PST series 600 Watt inverters and up
Inverter Installation Kits

Connect your inverter to a battery bank safely and simply.
Samlex kits contain the cables, fuse assembly and hardware you’ll need to plug and power your system.

Choose your kit based on the size of your inverter:

<table>
<thead>
<tr>
<th>INVERTER</th>
<th>FUSE SIZE</th>
<th>CABLE GAUGE</th>
<th>CABLE LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-1000-KIT 12 V, 600-1000 W</td>
<td>100 A</td>
<td>AWG #4</td>
<td>2 x 10FT</td>
</tr>
<tr>
<td>24 V, 600-2000 W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC-2000-KIT 12 V, 1000-2000 W</td>
<td>200 A</td>
<td>AWG #2</td>
<td>2 x 10FT</td>
</tr>
<tr>
<td>24 V, 2000-3000 W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC-2500-KIT 12 V, 2000-2500 W</td>
<td>300 A</td>
<td>AWG #2/0</td>
<td>2 x 10FT</td>
</tr>
<tr>
<td>24 V, 3000-4000 W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC-3500-KIT 12 V, 2500-3500 W</td>
<td>400 A</td>
<td>AWG #4/0</td>
<td>2 x 10FT</td>
</tr>
<tr>
<td>24 V, 4000-6000 W</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Connecting the Fuse Block to the Battery:

Battery end of positive cable cut and prepared for fitting into the fuse block

Fitted fuse assembly

Positive cable connection to the battery with fuse block to protect cables

Do you already have a heavy duty inverter cable but need a fuse assembly? Maybe you have a fuse assembly but need to replace an individual fuse? Either way, we’ve got you covered. Samlex fuse assemblies and replacement fuses are also sold separately.

<table>
<thead>
<tr>
<th>FUSE ASSEMBLIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-FA-100 100 A Fuse assembly*</td>
</tr>
<tr>
<td>DC-FA-200 200 A Fuse assembly*</td>
</tr>
<tr>
<td>DC-FA-300 300 A Fuse assembly*</td>
</tr>
<tr>
<td>CFB2-400 400 A Fuse block</td>
</tr>
</tbody>
</table>

*Fuse assembly includes single pole fuse bar, fuse insulating cap and hardware.

| DOUBLE POLE FUSE BAR WITH INSULATING CAP (NO FUSE) |
| DC-FB-2                                             |
| *includes nuts & washers (not shown)                |

<table>
<thead>
<tr>
<th>INDIVIDUAL REPLACEMENT FUSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRBF-100 100 A</td>
</tr>
<tr>
<td>MRBF-200 200 A</td>
</tr>
<tr>
<td>MRBF-300 300 A</td>
</tr>
<tr>
<td>JLLN-400 400 A</td>
</tr>
</tbody>
</table>
Battery Chargers

Use utility power or a generator to charge and maintain your batteries for future use.

All Samlex battery chargers offer advanced technology characterized by the following features:

SEC Series
- Advanced switch mode design
- Overload, short circuit and over-temperature protection
- Ideal for charging any type of lead-acid batteries
- Can also be used as a DC power supply (except BP-1210)
- Fully automatic operation
- Reverse polarity protection
- Light weight and compact
- Easy mounting system

2 Year Warranty

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUT VOLTAGE</th>
<th>INPUT FREQUENCY</th>
<th>BATTERY VOLTAGE</th>
<th>CHARGING CURRENT</th>
<th>DIMENSIONS (mm)</th>
<th>DIMENSIONS (in)</th>
<th>WEIGHT (kg)</th>
<th>WEIGHT (lb)</th>
<th>REMOTE (sold separately)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP-1210</td>
<td>120/230 VAC</td>
<td>50 - 60 Hz</td>
<td>12 VDC</td>
<td>10 Amps</td>
<td>210 x 85 x 50</td>
<td>8.26 x 3.34 x 1.96</td>
<td>1</td>
<td>2.2</td>
<td>N/A</td>
</tr>
<tr>
<td>SEC-1215A</td>
<td>120/230 VAC</td>
<td>50 - 60 Hz</td>
<td>12 VDC</td>
<td>15 Amps</td>
<td>215 x 214 x 82</td>
<td>8.5 x 8.4 x 3.3</td>
<td>2.2</td>
<td>4.8</td>
<td>N/A</td>
</tr>
<tr>
<td>SEC-1230A</td>
<td>120/230 VAC</td>
<td>50 - 60 Hz</td>
<td>12 VDC</td>
<td>30 Amps</td>
<td>273 x 214 x 82</td>
<td>10.8 x 8.4 x 3.3</td>
<td>2.9</td>
<td>6.4</td>
<td>N/A</td>
</tr>
<tr>
<td>SEC-1245A</td>
<td>120/230 VAC</td>
<td>50 - 60 Hz</td>
<td>12 VDC</td>
<td>45 Amps</td>
<td>330 x 230 x 108</td>
<td>13 x 9 x 4</td>
<td>5</td>
<td>11</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-1260A</td>
<td>120/230 VAC</td>
<td>50 - 60 Hz</td>
<td>12 VDC</td>
<td>60 Amps</td>
<td>330 x 230 x 108</td>
<td>13 x 9 x 4</td>
<td>5</td>
<td>11</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-1280A</td>
<td>120/230 VAC</td>
<td>50 - 60 Hz</td>
<td>12 VDC</td>
<td>80 Amps</td>
<td>382 x 230 x 108</td>
<td>15 x 9 x 4</td>
<td>5.5</td>
<td>12.1</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-2415A</td>
<td>120/230 VAC</td>
<td>50 - 60 Hz</td>
<td>24 VDC</td>
<td>15 Amps</td>
<td>273 x 214 x 82</td>
<td>10.8 x 8.4 x 3.3</td>
<td>2.9</td>
<td>6.4</td>
<td>N/A</td>
</tr>
<tr>
<td>SEC-2425A</td>
<td>120/230 VAC</td>
<td>50 - 60 Hz</td>
<td>24 VDC</td>
<td>25 Amps</td>
<td>330 x 230 x 108</td>
<td>13 x 9 x 4</td>
<td>5</td>
<td>11</td>
<td>900-RC</td>
</tr>
<tr>
<td>SEC-2440A</td>
<td>120/230 VAC</td>
<td>50 - 60 Hz</td>
<td>24 VDC</td>
<td>40 Amps</td>
<td>382 x 230 x 108</td>
<td>15 x 9 x 4</td>
<td>5.5</td>
<td>12.1</td>
<td>900-RC</td>
</tr>
</tbody>
</table>
Transfer Switches

HOW YOUR TRANSFER SWITCH WORKS

When you’re on the road and utility power is not available, the transfer switch detects your mobile solar system and uses it to feed the breaker panel.

Battery Bank ➔ Inverter ➔ Breaker Panel

As soon as you plug in, the transfer switch automatically switches off your mobile system and uses utility power to feed the breaker panel. Connect a battery charger to the terminal provided on the transfer switch and your batteries will also charge when plugged in.

Utility Power ➔ Breaker Panel
Utility Power ➔ Battery Charger ➔ Battery Bank

2 Year Warranty

Automatically switch to utility power when it’s available.

Connect a Samlex transfer switch to your inverter/battery bank and have your power source switch automatically to utility power when it is available. The transfer switch also protects your inverter from unwanted AC back feed.

STS-30

- Automatically switches between 2 separate AC input sources: Utility Power and a Generator or Inverter/Battery Bank
- Has a rated capacity of 30 Amps at 120 VAC and is suitable for a 30 Amp Utility Power Cord and a Generator of up to 3.6 KVA capacity
- Uses a 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 select to enable a time delay when transferring to a generator
- Comes with a standard North American power cord for convenient connection to 15 Amp NEMA5-15R receptacles on a generator or an inverter with up to 1800 VA capacity (Replace this cord with 30 Amp cord if full 30 Amp capacity is required)
- Has (2) NEMA5-20 outlets for convenient connection to a battery charger

Main Electronic Supplies Ltd
Complete Solar Systems

Your batteries stay charged. You have AC power whenever you need it. It’s really that simple.

The Nomad 120
(An example system for short RV trips)

System Diagram

Not sure how much power you need? Ask your dealer to help you size a complete system that’s right for you.
## Nomad 120

What’s in your Nomad 120 Watt system:

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td><strong>2</strong></td>
<td><strong>3</strong></td>
<td><strong>4</strong></td>
<td><strong>5</strong></td>
</tr>
<tr>
<td><img src="image1.png" alt="Solar Panel" /></td>
<td><img src="image2.png" alt="Inverter" /></td>
<td><img src="image3.png" alt="Charge Controller" /></td>
<td><img src="image4.png" alt="Connecting Wires" /></td>
<td><img src="image5.png" alt="Mounting System" /></td>
</tr>
<tr>
<td><strong>120W Solar Charging Kit</strong></td>
<td><strong>DC-2000 Inverter Installation Kit</strong></td>
<td><strong>Inverter</strong></td>
<td><strong>Battery Charger</strong></td>
<td><strong>Transfer Switch</strong></td>
</tr>
<tr>
<td>- 120 Watt high efficiency Solar Panel</td>
<td>Samlex’s Inverter Installation Kit contains a pair of heavy duty cables and a fuse assembly that is used to connect the inverter to the battery bank. The fuse protects your equipment in the event of a battery short-circuit and the cables provide a safe and easy plug and play connection. See pg. 12 for more details</td>
<td>This 1500 Watt pure sine wave inverter converts battery voltage to AC power similar to that found in your household electrical outlets, allowing you to power all of your favorite AC devices using stored energy from the battery bank. See pg. 7-8 for more details</td>
<td>Samlex’s 30 Amp battery charger charges your batteries when connected to utility power or a generator. Ideal for topping up your batteries whenever utility power is available. See pg. 13 for more details</td>
<td>A transfer switch automatically detects when utility power is available and disables your mobile system hands free. When plugged into utility power, the transfer switch also directs current to your battery charger to charge the battery bank. See pg. 14 for more details</td>
</tr>
</tbody>
</table>

### DC-2000-KIT

- **SRV-120-KIT**
- **Charge Controller SCC-30AB**
- **Connecting Wires SCW-20-2**
- **Mounting System SMS-KIT**

### SA-1500-112

- **SCC-30AB**
- **SCW-20-2**
- **SMS-KIT**

### SEC-1230A

- **STS-30**
Complete Solar Systems

Use your TV, fridge, microwave, coffee pot or computer wherever your RV takes you.

Power your computers  Power your lights  Power your TV...

The Nomad 240
(An example system for longer RV trips)

Not sure how much power you need? Ask your dealer to help you size a complete system that’s right for you.
Nomad 240
What’s in your Nomad 240 Watt system:

1. 120W Solar Charging Kit
   - 120 Watt high efficiency Solar Panel
   - Samlex 30 Amp Flush Mount Charge Controller
   - Pair of 20 Foot Connecting Wires
   - Mounting System/Hardware
   See pg. 4 for more details

2. 120W Solar Expansion Kit
   Power up your solar system by adding additional panels. This kit contains an additional 120 Watt solar panel as well as the necessary wires and connectors to join it to your existing system.
   See pg. 5 for more details

3. InverCharge
   This 2000 Watt pure sine wave inverter unit contains a 100 Amp battery charger and a 30 Amp transfer switch – all in one device. Convert DC to AC power, automatically detect when utility power is available and charge your batteries.
   See pg. 9 for more details

4. DC-2500 Inverter Installation Kit
   Samlex’s Inverter Installation Kit contains a pair of heavy duty cables and a fuse assembly that is used to connect the inverter to the battery bank. The fuse protects your equipment in the event of a battery short-circuit and the cables provide a safe and easy plug and play connection.
   See pg.12 for more details
Size your Solar Charging Kit

1 Fill in the chart to calculate the number of Watt-Hours you require per week to run all of your favorite devices.

2 Match the weekly Watt-Hours needed to a Samlex Solar Charging Kit listed below.

<table>
<thead>
<tr>
<th>Model</th>
<th>Weekly Energy Output*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRV-50-KIT</td>
<td>2100 Watt-hours</td>
</tr>
<tr>
<td>SRV-85-KIT</td>
<td>3570 Watt-Hours</td>
</tr>
<tr>
<td>SRV-120-KIT</td>
<td>5040 Watt-Hours</td>
</tr>
</tbody>
</table>

3 For additional Watt-Hours add a Solar Expansion Kit to the Solar Charging Kit you selected in Step 2.

<table>
<thead>
<tr>
<th>Model</th>
<th>Additional Weekly Energy Output*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRV-EXP-50-KIT</td>
<td>2100 Watt-hours</td>
</tr>
<tr>
<td>SRV-EXP-85-KIT</td>
<td>3570 Watt-Hours</td>
</tr>
<tr>
<td>SRV-EXP-120-KIT</td>
<td>5040 Watt-Hours</td>
</tr>
</tbody>
</table>

* Weekly Energy Output is based on 6 hours charging per day in optimal sunlight conditions and will vary at different times of the year, by location, and weather conditions.

4 The 

2 Solar Charging Kit

3 + Solar Expansion Kit(s)

will give me Watt-Hours per week

---

### Device

<table>
<thead>
<tr>
<th>Device</th>
<th>Typical watts required to run devices</th>
<th>x Number of devices</th>
<th>x Hours of use per day</th>
<th>x Days of use per week</th>
<th>= Weekly Watt Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12 VOLT DC APPLIANCES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compact Fluorescent Lamps</td>
<td>16</td>
<td>4</td>
<td>5</td>
<td>7</td>
<td>2240</td>
</tr>
<tr>
<td>Fan</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>DC Water Pump</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC Refrigerator</td>
<td>80</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell-phone charger</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Television</td>
<td>40</td>
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</tr>
<tr>
<td>Stereo</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>12 VOLT AC APPLIANCES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Can Opener</td>
<td>100</td>
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<tr>
<td>Electric Knife</td>
<td>100</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Coffee Maker</td>
<td>1200</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>13” Color TV</td>
<td>80</td>
<td></td>
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<tr>
<td>19” Color TV</td>
<td>160</td>
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<tr>
<td>25” Color TV</td>
<td>220</td>
<td></td>
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</tr>
<tr>
<td>Blender</td>
<td>300</td>
<td></td>
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<tr>
<td>Food Processor</td>
<td>400</td>
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<td></td>
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</tr>
<tr>
<td>CD/DVD player</td>
<td>10</td>
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<td></td>
</tr>
<tr>
<td>Refrigerator</td>
<td>200</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Portable vacuum</td>
<td>550</td>
<td></td>
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<tr>
<td>Incandescent lamps</td>
<td>60</td>
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<td>Compact Fluorescent Lamps</td>
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<td>Microwave Oven</td>
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<tr>
<td>Printer</td>
<td>550</td>
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<tr>
<td>Hair Dryer</td>
<td>1250</td>
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<tr>
<td>Iron</td>
<td>850</td>
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<tr>
<td>Laptop Computer</td>
<td>100</td>
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</tr>
<tr>
<td>Laptop Battery Charger</td>
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</tr>
<tr>
<td>Cell-phone charger</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Camcorder charger</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Weekly Energy Consumption (Watt-Hours)
## Size your Inverter

<table>
<thead>
<tr>
<th>Device</th>
<th>Typical watts required to run device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can Opener</td>
<td>10</td>
</tr>
<tr>
<td>Electric Knife</td>
<td>100</td>
</tr>
<tr>
<td>Coffee Maker</td>
<td>1150</td>
</tr>
<tr>
<td>13&quot; Color TV</td>
<td>80</td>
</tr>
<tr>
<td>19&quot; Color TV</td>
<td>160</td>
</tr>
<tr>
<td>25&quot; Color TV</td>
<td>220</td>
</tr>
<tr>
<td>Blender</td>
<td>300</td>
</tr>
<tr>
<td>Food Processor</td>
<td>400</td>
</tr>
<tr>
<td>CD/DVD player</td>
<td>10</td>
</tr>
<tr>
<td>Refrigerator</td>
<td>200</td>
</tr>
<tr>
<td>Portable vacuum</td>
<td>550</td>
</tr>
<tr>
<td>Incandescent lamps</td>
<td>60</td>
</tr>
<tr>
<td>Compact Fluorescent Lamps</td>
<td>17</td>
</tr>
<tr>
<td>Microwave Oven</td>
<td>900</td>
</tr>
<tr>
<td>Printer</td>
<td>550</td>
</tr>
<tr>
<td>Hair Dryer</td>
<td>1250</td>
</tr>
<tr>
<td>Iron</td>
<td>850</td>
</tr>
<tr>
<td>Laptop Computer</td>
<td>100</td>
</tr>
<tr>
<td>Laptop Battery Charger</td>
<td>25</td>
</tr>
<tr>
<td>Cell-phone charger</td>
<td>25</td>
</tr>
<tr>
<td>Camcorder charger</td>
<td>25</td>
</tr>
</tbody>
</table>

Need Help? You can also go to [samlexsolar.com](http://samlexsolar.com) to access the interactive Solar Kit & Inverter Calculator.
Additional Power Products

**DC POWER SUPPLIES**

- **FCP-1000**
  Input: 120 VAC  
  Output: 12 VDC, 1000 mA  
  Female cigar lighter receptacle

- **SEC-1212**
  Input: 120 VAC  
  Output: 13.8 VDC, 10 Amps

- **SEC-1223**
  Input: 120 VAC  
  Output: 13.8 VDC, 23 Amps

**DC CONVERTER**

- **SPS-1204UL**
  Input: 120 VAC  
  Output: 13.2 VDC, 3.5 Amps  
  Female cigar lighter receptacle & wire terminals

- **SDC-15**
  Input: 20-35 VDC  
  Output: 13.8 VDC, 12 Amps

- **SDC-23**
  Input: 20-35 VDC  
  Output: 13.8 VDC, 20 Amps

**NOTES**
Customer Support

Samlex America
Corporate Head Office
British Columbia, Canada

Main Electronic Supplies Ltd
4554 Main Street
Vancouver BC V5V 3R5
Phone: 1-604-872-0267
Fax: 1-604-872-0268
Email: info@mainelectronics.com

Our Promise to You
- Experienced Manufacturing (20+ years)
- Quality Products
- Competitive Pricing
- Responsive and Personal Customer Service
- Extended Warranty
- Live Technical Support

Samlex provides innovative power conversion products supported by the best customer service in the industry.

Liability Disclosure
Power Inverters can be very dangerous if not selected, used, installed or maintained properly. When in doubt, a qualified electrical professional should be contacted for advice. Contact with high voltage could result in injury, death or risk of fire.