SURGE GUARD®
RV POWER PROTECTION

Protect What You Value Most
Complete Power Protection

Your RV is at the Mercy of the Power Pedestal!

Poor power quality entering your RV can not only affect the longevity of your electronic equipment and motors, but can cost you thousands of dollars in repairs and create frustrating, unnecessary travel delays. Surge protection in and around the home is commonplace in today's world. Surges, however, are not the only dangers to your electronic equipment. The quality of power entering a home is generally consistent; however, the same can not be said for RV parks. Power quality in RV parks is subject to vast fluctuations and is dependent upon many factors. Intensity of electrical loads placed on an RV park, weather conditions, faulty wiring, and undersized or deteriorating electrical connections affect the quality of power entering your RV. With today's RV containing sophisticated and sensitive electronics, a few short seconds of faulty power can damage equipment within the coach, such as inverters, converters, microwaves, TV's, and refrigerators.

Surge Guard® Bumper to Bumper Power Protection

Southwire’s Surge Guard family of power protection devices are designed to protect your RV’s electrical system and sophisticated electronics from the dangers of faulty electrical power. A variety of Surge Guard products protect your RV from:

- High/Low voltage
- Mis-wired pedestals
- Open neutral
- Open ground
- Reverse polarity
- High neutral current
- Surges
- Overheating plug/receptacle

Surge Guard® RV Power Protection

Don’t Plug In Without It!

Surge Guard power protection devices shut off power if the voltage drops below 102V or rises above 132V. Once the voltage resumes within these parameters, power is restored to the RV with a time delay to account for AC head pressure bleed off. Surge Guard devices monitor for faulty wiring from the power pedestal and protects from reverse polarity and the dangers of open neutral and ground conditions. Patent-pending thermal protective plug/receptacles will shut off when overheating, reducing the risks of fire and damaged wires and plugs. Multi-mode surge protection eliminates the potential for power surges to enter the RV though power cables during electrical storms, and indicates when surge failure has occurred. Surge Guard power protection is available in portable and hardware configurations.

Surge Guard® Automatic Transfer Switch Family

Surge Guard Automatic Transfer Switches (ATS) also includes RVC compatible devices. The ATS models transfer to generator power automatically when energized. When both shore power and generator power are available, generator dominates after a 30 second delay. Once the generator is shut down, shore power activates. Automatic Transfer Switch models are available with maximum spike current from 26,400A – 130,000A, and surge suppression from 2600 Joules – 3350 Joules. Some ATS models offer optional remote displays.
Surge Guard®
Basic Portable

Model 44750
With Ground Fault Protection
120V, 30A
10/3 AWG Cord

- Automatically shuts off the power when ground faults are present
- Requires manual reset after a ground fault
- Weather resistant
- Most economically priced protection
- 510 Joules of power surge protection
- 8mA trip level
- Easy-T-Pull™ handles
- 2.10”W x 20.15”L x 2.10”D

Perfect for Pop-ups and Travel Trailers

Surge Guard®
30A & 50A
Surge Protectors with Enhanced Diagnostics

Model 44280
120V, 30A
2100 Joules

Model 44290
120/240V, 50A
4200 Joules

- Identifies faulty park power and provides surge protection
- Increased receptacle brass thickness reduces heat
- Easy-T-Grip™ handle with integrated receptacle
- Easy to read LED fault chart provides simple power analysis
- Tests for and Indicates
  - Open neutral
  - Open ground
  - Reverse polarity
  - Open circuit/no power
  - Missing leg 1/leg 2 voltage *50A only*
  - Surge protection status
  - Overheating plug/receptacle

Perfect for Pop-ups and Travel Trailers
Surge Guard® 30A & 50A
Surge Protectors

Model 44260
120V, 30A
2100 Joules

Model 44270
120/240V, 50A
4200 Joules

Identifies faulty park power plus offers surge protection
Analyzes circuits to verify pedestal wiring
Indicators illuminate to show power status
Tests for and indicates:
- Open ground
- Open neutral
- Correct polarity
Easy-T-Pull™ handles
44260: 2.41”W x 14.40”L x 1.85”D
44270: 3.06”W x 15.86”L x 1.85”D

Surge Guard® 30A & 50A
Full Protection Portables

Model 44270
120/240V, 50A
4200 Joules

Model 34830
120V, 30A
2450 Joules

Model 34850
120/240V, 50A
3850 Joules

Total electrical protection from faulty park power.
Provides protection against:
- Power surges
- Open ground
- Open neutral
- Low (<102V) and High (>132V) voltage
- Overheating plug/receptacle
- Reverse polarity
- Mis-wired pedestal
- High neutral current (50A model)
- Continuously monitors for and indicates:
  - Voltage and Amp Draw (RMS)
  - Surge failure
- Multi-mode surge suppression
- Automatic reset on power restoration
- 128 second reset delay protects A/C compressor
- LCD display (English)
- Easy-T-Pull™ handles
- 34830: 4.68”W x 21.50”L x 3.86”D
- 34850: 4.68”W x 22.00”L x 3.86”D

Perfect for Pop-ups and Travel Trailers

- Provides protection against:
- Overheating plug/receptacle
- Reverse polarity
- Mis-wired pedestal
- High neutral current (50A model)

Model 34850
120/240V, 50A
3850 Joules
Total electrical protection from faulty park power. 
Provides protection against:

- Power surges
- Open ground
- Open neutral
- Low (<102V) and High (>132V) voltage
- Continuously monitors for and indicates:
  - Voltage and Amp Draw (RMS)
  - Surge failure
- Multi-mode surge suppression
- Automatic reset on power restoration
- 128 second reset delay protects A/C compressor
- LCD display (English)
- Optional remote power monitor LCD display (p/n 40300 sold separately)
  - Joystick for easy screen navigation
  - Plug and Play for telecom jack equipped models
- 2450 Joules of power surge protection (Model 35530)
- 3850 Joules of power surge protection (Model 35550)
- 34520: 5.30”W x 11.12”L x 4.39”D
- 34560: 5.30”W x 11.39”L x 4.93”D

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### Surge Guard® 30A & 50A Full Protection Hardwires

<table>
<thead>
<tr>
<th>Model 35530</th>
<th>Model 35550</th>
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<td>120V, 30A</td>
<td>120/240V, 50A</td>
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### Surge Guard® 50A Hardwire

<table>
<thead>
<tr>
<th>Model 40240</th>
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</thead>
<tbody>
<tr>
<td>RV Power Protection</td>
</tr>
<tr>
<td>120/240V, 50A, 60Hz</td>
</tr>
</tbody>
</table>

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### Model 40240

- **Total electrical protection from faulty park power. Provides protection against:**
  - Power surges
  - Open ground
  - Open neutral
  - Low (<102V) and High (>132V) voltage
  - Multi-mode surge suppression
  - Automatic reset on power restoration
  - 128 second reset delay protects A/C compressor
  - LCD display (English)
  - Remote power monitor LCD display (English)
    - Joystick for easy screen navigation
    - Voltage and current (continuously monitored and indicated)
  - 3350 Joules of power surge protection
  - Display: 4.75”W x 3.50”L x 1.50”D

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### Model 35530

- **120V, 30A**
- *UL*
- Optional

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### Model 35550

- **120/240V, 50A**
- *UL*
- Optional

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### Model 40240

- **RV Power Protection**
- **120/240V, 50A, 60Hz**
- *UL*
- Optional
### Basic 30A & 50A Automatic Transfer Switches

- **Model 41300**
  - 120V, 30A, 60Hz
  - 30A Model 41300 has proprietary electrical interlock
  - 50A Model 40100 has mechanical interlocking contactors
  - Time delay at power up
  - Transfers to generator power automatically when energized after 30 second delay. When both shore power and generator power are available, generator dominates after a 30 second delay. Once the generator is shut down, shore power activates after a 3-4 second delay.
  - Dual contactor arrangement
  - Does NOT provide surge protection
  - 41300: 5.58”W x 07.62”L x 3.31”D
  - 40100: 5.84”W x 12.75”L x 5.27”D

- **Model 40100**
  - 120/240V, 50A, 60Hz
  - Transfers to generator power automatically when energized after 30 second delay. When both shore and generator power are available, generator dominates after a 30 second delay. Once generator shuts down, shore power activates after 3 second delay.
  - Limited protection from faulty park power.
  - Provides protection against:
    - Power surges
    - Open neutral
    - Reverse polarity
  - Multi-mode surge suppression
  - 50A, FLA mechanical interlocking contactors
  - UL approved – UL1008 full transfer switch rating
  - 2600 Joules of power surge protection
  - 8.84”W x 12.75”L x 5.21”D

### Surge Guard® 50A Automatic Transfer Switch

- **Model 41260 with Limited RV Power Protection**
  - 120/240V, 50A, 60Hz
  - Transfers to generator power automatically when energized after 30 second delay (generator mode). When both shore and generator power are available, generator dominates after a 30 second delay. Once generator shuts down, shore power activates after 3 second delay.
  - Limited protection from faulty park power.
Surge Guard® 50A RVC
Automatic Transfer Switch

Model 40350-RVC
RVC Compatible with Full RV Power Protection
120/240V, 50A, 60Hz

- Transfers to generator power automatically when energized after 30 second delay (generator mode). When both shore and generator power are available, generator dominates after a 30 second delay. Once generator shuts down, shore power activates after 3 second delay.
- Total electrical protection from faulty park power.

Provides protection against:
  - Power surges
  - Open ground
  - Open neutral
  - Low (<102V) and High (>132V) voltage
  - Reverse polarity
  - Mis-wired pedestal
  - High and low frequency

- Multi-mode surge suppression
- RVC communication allows instant display of voltage, current and fault conditions on an RVC compatible device
- Indicator lights on front of ATS indicate presence of input power for L1 and L2
- Optional Remote Power Monitor LCD Display (P/N 40299 sold separately)
  - Voltage and current (continuously monitored and indicated)
  - Easy to navigate faults in plain English
- 65A, FLA mechanical interlocking contactors
- UL approved – UL1008 full transfer switch rating
- 3350 Joules of power surge protection
- 8.84”W x 12.75”L x 5.21”D

Surge Guard® 90A RVC
Automatic Transfer Switch

Model 41390-RVC
RVC Compatible with Full RV Power Protection
120/240V, 90A, 60Hz

- Transfers to generator power automatically when energized after 30 second delay (generator mode). When both shore and generator power are available, generator dominates after a 30 second delay. Once generator shuts down, shore power activates after 3 second delay.
- Total electrical protection from faulty park power.

Provides protection against:
  - Power surges
  - Open ground
  - Open neutral
  - Low (<102V) and High (>132V) voltage
  - Reverse polarity
  - Mis-wired pedestal
  - High and low frequency

- Multi-mode surge suppression
- RVC communication allows instant display of voltage, current, and fault conditions on an RVC compatible device
- Indicator lights on front of ATS indicate presence of input power for L1 and L2
- Optional Remote Power Monitor LCD Display (P/N 40299 sold separately)
  - Voltage and current (continuously monitored and indicated)
  - Easy to navigate faults in plain English
- 95A, FLA mechanical interlocking contactors
- UL approved – UL1008 full transfer switch rating
- 3350 Joules of power surge protection
- 8.94”W x 12.47”L x 5.27”D
- Display: 4.75”W x 3.50”L x 1.50”D
30A & 50A Voltage Regulators

These voltage regulators do not protect against faults or surges.

Model 10176
120V, 30A
- For use on single phase, 2-wire services

Model 10175
120/240V, 50A
- For use on split phase, 3-wire services
- Can be used on 120/208V, 3-wire network

Features
- 10% voltage increase
- Open neutral tolerant
- Heavy duty transformer
- LED status lights indicate:
  - Open neutral
  - Under voltage
  - Over voltage
  - Phase reversal
  - Operating mode

Benefits
- Continuously monitors line voltage conditions
- Increases voltage to provide a very stable regulated and reliable source of power to the coach or travel trailer
- Helps prevent low voltage damage to appliances
- Fully automatic

Surge Guard® Lock Hasp

Model 34590

- Designed to prevent unauthorized removal of your Surge Guard electrical protector from your RV
- Fits all portable Surge Guard models and Surge Guard Voltage Regulators
- Easily attaches to standard 30A & 50A plugs

Lock not included

Lock Hasp

From Surge Guard® Power Protection Device

To RV Coach/Camper

Unassembled

Assembled

Model 34590

Lock not included

Unassembled

Assembled

From Surge Guard® Power Protection Device

To RV Coach/Camper
Electra Check™ Digital Monitor

Model AECM20020

- Fully tests incoming power for:
  - Open ground
  - Reverse polarity
  - High/Low voltage
- Three display modes available:
  - Alternating voltage and frequency (VOLT/FREQ.)
  - Voltage only (VOLTAGE)
  - Frequency only (FREQUENCY)
- Accurate testing and monitoring of all AC power source types
- RMS voltage and frequency meter
- Multi-tone fault alarm
- Hands-free auto reset
- Advanced microelectronics
- One-button operation
- Wiring diagnostics
- LCD display with LED backlight
- UL listed
### A Multitude of Protection Choices for Your RV

#### Surge Guard® 30A & 50A Surge Protectors

<table>
<thead>
<tr>
<th>Select the level of protection your RV needs</th>
<th>(30\text{A Portable} \quad 44280)</th>
<th>(50\text{A Portable} \quad 44290)</th>
<th>(30\text{A Portable} \quad 44750)</th>
<th>(30\text{A Portable} \quad 44260)</th>
<th>(50\text{A Portable} \quad 44270)</th>
<th>(30\text{A Portable with LCD} \quad 34830)</th>
<th>(30\text{A Hardwire} \quad 35530)</th>
<th>(50\text{A Portable with LCD} \quad 34850)</th>
<th>(50\text{A Hardwire} \quad 35550)</th>
<th>(50\text{A Hardwire} \quad 40420)</th>
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Select the level of protection your RV needs

<table>
<thead>
<tr>
<th>Feature</th>
<th>30A Basic ATS 41300</th>
<th>30A Basic ATS 40100</th>
<th>50A Limited Protection 41260</th>
<th>50A Full Protection 40350-RVC</th>
<th>90A Full Protection 41390-RVC</th>
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<tr>
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</table>
Protect what you value most!

Surge Guard® Products
Protect Your RV Against:

Power Surges
Over/Under Voltage
Mis-wired Pedestal
Open Neutral
Open Ground
Overheating Plug/Receptacle
(Patent-Pending)

Available in 120V, 30A and 120/240V, 50A Portables and Hardwires and 120/240V, 50A and 90A RVC Compatible
Automatic Transfer Switches