

# Easily Protect RVs from Power Surge Damage

## RV SurgePro™ Surge Protector Delivers Continuous Power Protection and Monitoring

### Dual-Capacity 50-Amp and 30-Amp Protection Saves RV Power Systems from Damage

The **RV SurgePro Dual-Amp Surge Protector and Power Management** provides owners of everything from Class A motorcoaches to towables and fifth-wheels whole-RV power surge protection should a lightning strike or other sudden power burst occur.

The robust RV SurgePro surge protector **withstands a 4200-Joule power burst** and protects against potentially thousands of dollars worth of electrical system and appliance damage.

In addition, the RV SurgePro **constantly analyzes the power source and RV power usage** to protect against nine additional parameters of faulty electrical power.

#### KEY FEATURES & BENEFITS

##### FULL ELECTRICAL SYSTEM PROTECTION

- Withstands surges up to 4200 Joules
- Handles 50-amp and 30-amp power supplies (free adapter included); 120VAC to 240VAC systems
- Protects onboard electrical appliances
- Analyzes multiple power usage parameters

##### EASY PLUG & PLAY IN-LINE UNIT

- 8-second start sequence diagnoses power supply
- Continuous power status LED readout
- Power management indicators
- Safe, automatic reset after a surge or other shutdown

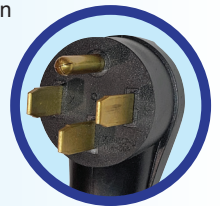
##### HIGH-PERFORMANCE DESIGN

- Weather-resistant enclosure
- Industrial-grade brass receptacle
- Anti-theft lock ring on power cable

**INCLUDES**  
**30-AMP PLUG-IN ADAPTER**  
for 30-amp power source



- 120 VAC, 50-amp connection
- LEDs indicate properly powered source
- Large loop offers ample grip for easy removal
- Commercial grade contacts for heavy-duty use
- Anti-theft locking ring to easily secure device to power source



- Five-mode surge protection up to 4200 joules
- LED readout continuously monitors voltage and amperage being used by the RV
- Diagnostic circuitry senses electrical alert events and conveys info with visible LED display
- Monitors power source for reverse polarity and dangers of open and neutral grounds
- High/low voltage shut-off protects RV and appliances
- Auto shutdowns and restarts are activated after repeated alert events
- Handles 12,000 watts (maximum)
- Includes free 30-amp adapter to serve both 50-amp and 30-amp power connections
- Waterproof, UV-proof module resists weather extremes
- Output power LED indicates when the outlet has "live" power for the RV
- Spring-tension cover keeps contacts clean between uses
- Commercial grade for heavy-duty use
- Rated for 50-amp RV power connection

**RV SurgePro™**  
— By SoftStartUSA

## PERFORMANCE DETAILS

### POWER SURGE CAPABILITIES

Unexpected surges in RV park-provided electrical power can occur due to utility provider issues, weather, or other problems. For 50-amp or 30-amp connections, the RV SurgePro module offers premium protection for power bursts up to 4200 joules. This feature alone can pay for itself in savings on damaged appliances that may result when an unexpected surge occurs.

### POWER MONITORING AND SAFETY CAPABILITIES

**Continuous Monitoring** – RV SurgePro also allows the RV owner to monitor electrical power usage. It shows “real time” Voltage (VAC) and Current (Watts) on the LED readout.

In addition the RV SurgePro protects the RV from electrical system damage should one of these situations be detected:

- High/low voltage
- High/low frequency
- Overheating
- High neutral current
- Open neutral
- Open ground
- Ground voltage
- Current leakage
- Power off delay

**Overload Protection** – Because a breaker may not trip until a much higher amperage is reached, RV SurgePro incorporates a current limiter to protect an RV from such potentially damaging variances.

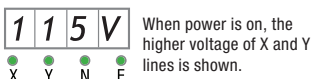
**Under-Voltage Protection** – If incoming voltage drops below 104 VAC, an RV SurgePro will not allow the A/C to start on such low voltage. Lower voltage means a high current demand which can overheat the cables and trip the breaker. After the protective shutdown, an Auto Restart will occur after 2.5 minutes.

**Over-Voltage and Over-Current Protection** – If an RV is running over 50 amps for a continuous time (1 minute), the RV SurgePro will cut power to prevent overheating the RV electrical system. After the protective shutdown, an Auto Restart will occur after 2.5 minutes.

## INSTALLATION / OPERATION

### CONNECTING TO 50-AMP POWER SOURCE

1. Plug RV power cable into RVSP.
2. Plug RVSP into 50-amp power pedestal.  
The four LEDs will turn green, and 8 seconds later, a voltage readout will appear on the display to indicate there is “live” power for the RV.



### TO DISCONNECT...

1. Unplug RVSP from 50-amp power pedestal.
2. Unplug RV cable from RVSP.

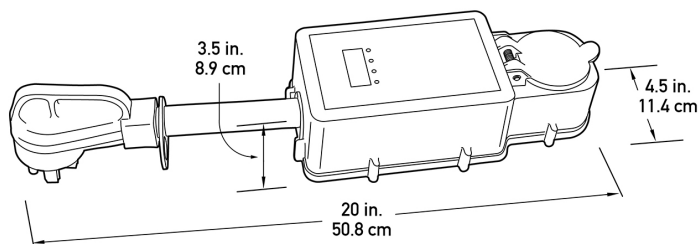
### CONNECTING TO 30-AMP POWER SOURCE

1. Plug RV power cable into RVSP.
2. Plug RVSP into 30-amp adapter.
3. Plug 30-amp adapter into 30-amp power pedestal.  
The four LEDs will turn green, and 8 seconds later, a voltage readout will appear on the display to indicate there is “live” power for the RV.

### TO DISCONNECT...

1. Unplug 30-amp adapter from power pedestal.
2. Unplug RVSP from 30-amp adapter.
3. Unplug RV cable from RVSP.

## DIMENSIONS



## LED FAULT CODE READINGS

### POWER DISRUPTION TROUBLESHOOTING

When a protective shutdown in electrical power occurs, the LED panel and lights indicate the source of the problem to help you resolve the electrical issue at hand.

<b>L1VH</b> X Y N E	Voltage of X line is higher than 138 V. Relay is off.	<b>L2VH</b> X Y N E	Voltage of Y line is higher than 138 V. Relay is off.
<b>L1VL</b> X Y N E	Voltage of X line is lower than 102 V. Relay is off.	<b>L2VL</b> X Y N E	Voltage of Y line is higher than 55 A or 33 A. Relay is off.
<b>L1CH</b> X Y N E	Current of X line is higher than 55 A or 33 A. Relay is off.	<b>L2CH</b> X Y N E	Current of Y line is higher than 55 A or 33 A. Relay is off.
<b>L1FH</b> X Y N E	Frequency of X line is higher than 71 Hz. Relay is off.	<b>L2FH</b> X Y N E	Frequency of Y line is lower than 54 Hz. Relay is off.
<b>L1FL</b> X Y N E	Frequency of X line is lower than 54 Hz. Relay is off.	<b>L2FL</b> X Y N E	Frequency of Y line is higher than 54 Hz. Relay is off.
<b>N-CH</b> X Y N E	Current of N line is higher than 55 A or 33 A. Relay is off.		

When troubleshooting the Voltage, Current and Frequency fault codes above, the LED will go back to green color.

<b>E-VH</b> X Y N E	Voltage of E line is higher than 24 V. Power must be turned Off to turn On again.	<b>L2TH</b> X Y N E	Temperature of Y line is higher than 194°F/ 90°C. Power will resume after temperature lowers.
<b>E-CH</b> X Y N E	Current of E line is higher than 30 mA. Power must be turned Off to turn On again.	<b>N-TH</b> X Y N E	Temperature of N line is higher than 194°F/ 90°C. Power will resume after temperature lowers.
<b>L1TH</b> X Y N E	Temperature of X line is higher than 194°F/ 90°C. Power will resume after temperature lowers.	<b>SPEER</b> X Y N E	Hardware failure. Relay is off. Reboot (pull plug, then plug back in) to determine if product can be used.

## TECHNICAL SPECIFICATIONS

Model number:	RVSP3050
Operating Voltage:	120/240 VAC, 50-60 Hz
Amp Rating:	50 Amps, 30 Amps (with adapter)
Surge Protection:	4200 Joules (Max.)
Working temperature:	-40°F to 194°F (-40°C to 90°C)
Dimensions:	20”h x 4.5”w x 3.5”d (50.8 cm x 11.4 cm x 8.9 cm)
Weight:	6 lb. (2.72 kg)
Warranty:	Lifetime Limited Warranty 90-Day Return Policy
Package Contents:	1. RV SurgePro surge protector 2. 30-amp power adapter plug 3. Instructions

Specifications are subject to change without notice.

**RV SurgePro**  
—By SoftStartUSA

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