

TRC

presents

BEWARE OF THE PEDESTAL



SURGE GUARD[®]
RV Power Protection

Bumper to Bumper Power Protection

Surge Guard® - Don't Plug In Without It!



Your RV is at the Mercy of the Power Pedestal and Surge Protection Is Not Enough Protection!

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 wipe out appliances within the coach such as stereos, satellites, microwaves, televisions and refrigerators.

Surge Guard® Bumper to Bumper Power Protection

TRC'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
- Open Neutral
- Miswired Pedestals
- Surges



These Surge Guards (except Models 44740, 41260 and the Circuit Analyzer) remove power if the voltage level 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 allow for AC head pressure bleed off. Surge Guard monitors for faulty wiring from the power pedestal and protects from reverse polarity and the dangers of an open neutral condition. Multi mode surge protection eliminates the potential for power surges to enter the RV through power cables during electrical storms. Surge Guard is available in portable or hardwire configurations.

Now featuring the Surge Guard Automatic Transfer Switch Family

Surge Guard now has a full line of robust Automatic Transfer Switches, including 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®

RV Power Protection

Surge Guard® Circuit Analyzer

Surge Guard® 30A Portable

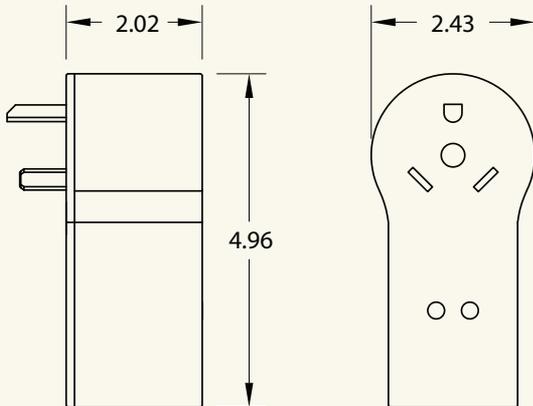
Model AECM10086

120V, 30A



Perfect for Pop-ups and Travel Trailers

- ▶ Identifies faulty park power plus offers surge protection.
- ▶ Analyzes circuits to verify pedestal power.
- ▶ Indicators illuminate to show power status.
- ▶ Tests for and indicates:
 - Open ground
 - Open neutral
 - Correct polarity
- ▶ 1020 Joules.



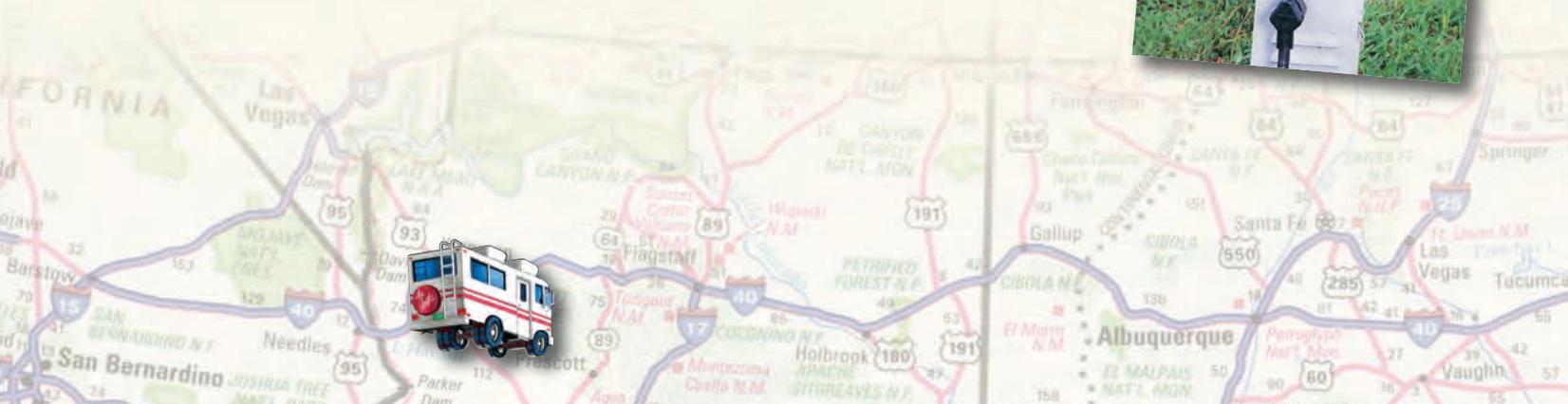
Model 44740

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



Perfect for Pop-ups and Travel Trailers

- ▶ Automatically shuts off the power when ground faults are present.
- ▶ Requires manual reset after a ground fault.
- ▶ Weather resistant.
- ▶ Convenient plug handles.
- ▶ Most economically priced protection.
- ▶ 510 Joules of power surge protection.



Surge Guard® 30A & 50A Portables

Surge Guard® 30A & 50A Hardwires

Model 34730 with LCD Display

120V, 30A
10/3 AWG Cord



Model 34750 with LCD Display

120/240V, 50A
6/4 AWG Cord



Model 34520

120V, 30A



Optional

Model 34560

120/240V, 50A



Optional

- ▶ Automatic reset on power restoration.
- ▶ Automatically shuts off the power when the following is present:
 - Open neutral
 - Low (<102V) and High (>132V) Voltage
- ▶ Continuously Monitors for:
 - Voltage and Amp Draw (RMS)
 - Reverse polarity (miswired pedestal, elevated ground voltage)
- ▶ LCD Display (English)
- ▶ 128 second reset delay protects A/C compressor.
- ▶ 2450 Joules of power surge protection (Model 34730).
- ▶ 3850 Joules of power surge protection (Model 34750).

- ▶ Automatic reset on power restoration.
- ▶ Automatically shuts off the power when the following is present:
 - Open neutral
 - Low (<102V) and High (>132V) Voltage
- ▶ Multi-mode surge suppression.
- ▶ Caution indicator light indicates:
 - Miswired pedestal
 - Reverse polarity
 - Elevated ground voltage
- ▶ 128 reset delay protects A/C compressor.
- ▶ 2450 Joules of power surge protection (Model 34520).
- ▶ 3850 Joules of power surge protection (Model 34560).
- ▶ Easy installation
- ▶ Optional Remote Power Monitor LCD Display (sold separately)
 - Joystick for easy screen navigation
 - Plug and Play



Surge Guard® 50A Hardwire

Automatic Transfer Switch

Model 40240



RV Power Protection
120/240V, 50A, 60 Hz



Model 40100



Basic ATS
120/240V, 50A, 60 Hz



- ▶ Protects RV bumper to bumper from faulty park power.
- ▶ Remote LCD display
 - Plain English
 - Voltage and current indication
 - Fault identification
- ▶ Multi-mode surge suppression (fuse protected).
- ▶ Protects against:
 - Low (<102V) and High (>132V) Voltage
 - Miswired pedestal
 - Open neutral
 - Open ground
 - High/low frequency
 - Reverse polarity
- ▶ Auto reset on power restoration
- ▶ 2 minute 15 second reset delay protects A/C compressor
- ▶ 3350 Joules of power surge protection.

- ▶ 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.



Surge Guard® Automatic Transfer Switch

Model 41260

with Limited RV Power Protection
120/240V, 50A, 60 Hz



- ▶ Protects RV bumper to bumper from faulty park power.
- ▶ Provides the following protection:
 - Open neutral
 - Reverse polarity
- ▶ Multi-mode surge suppression.
- ▶ Time delay at power up (shore 3-4 sec., gen. 30 sec.).
- ▶ Mechanical interlocking contactors.
- ▶ UL Approved ATS - full transfer switch rating, UL1008.
- ▶ 50A, FLA.
- ▶ 2600 Joules at 76,400 Amps.

Surge Guard® Plus Automatic Transfer Switch

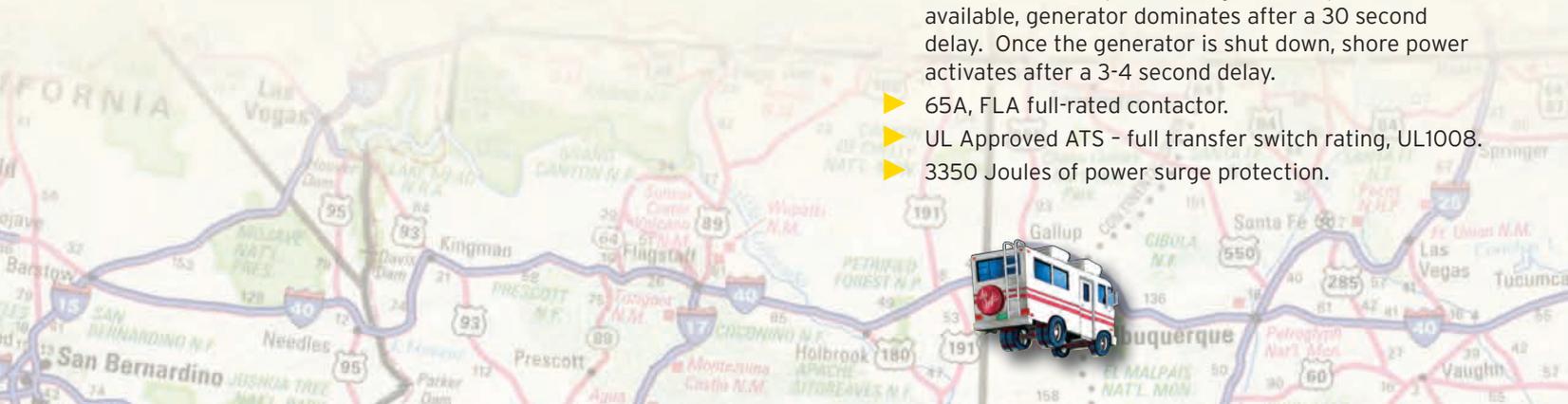
Model 40250-RVC

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



Optional

- ▶ RVC communication allows instant display of voltage, current and fault conditions on an RVC compatible device.
- ▶ Total electrical protection from faulty park and generator power. Provides the following protection:
 - Multi-mode surge suppression (fuse protected)
 - Low (<95V) and High (>132V) Voltage
 - Mis-wired pedestal
 - Open neutral
 - Open ground
 - Reverse polarity
 - High and low frequency
- ▶ Optional 2-line plain English display with continuous visual indication of source voltage, load current or diagnostics. (Display p/n 40272, Cable p/n 40258)
- ▶ Lights on front of ATS indicate the presence of input power for L1 and L2.
- ▶ Transfers to generator power automatically when energized after 30 second delay in generator mode. 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.
- ▶ 65A, FLA full-rated contactor.
- ▶ UL Approved ATS - full transfer switch rating, UL1008.
- ▶ 3350 Joules of power surge protection.



Surge Guard® Plus Automatic Transfer Switch

Model 41290-RVC

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



Optional

- ▶ RVC communication allows instant display of voltage, current and fault conditions on an RVC compatible device.
- ▶ Total electrical protection from faulty park power. Provides the following protection:
 - Multi-mode surge suppression (fuse protected)
 - Low (<95V) and High (>132V) Voltage
 - Mis-wired pedestal
 - Open neutral
 - Open ground
 - Reverse polarity
 - High and low frequency
- ▶ Optional 2-line plain English display with continuous visual indication of source voltage, load current or diagnostics. (Display p/n 40272, Cable p/n 40258)
- ▶ 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.
- ▶ Oversize contactors 95A, FLA.
- ▶ 3350 Joules of power surge protection.

30A & 50A Voltage Regulator



Model 10176

120V, 30A

- ▶ For use on single phase, 2-wire services.



Optional

Model 10175

120/240V, 50A

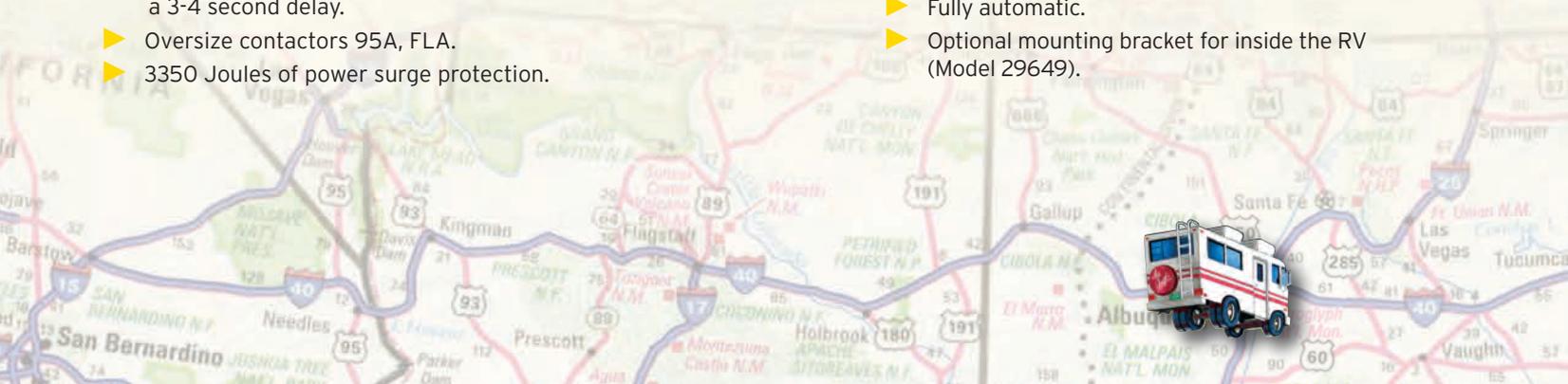
- ▶ For use on split phase, 3-wire services.
- ▶ Can be used on 120/208V, 3-wire network.

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.
- ▶ Optional mounting bracket for inside the RV (Model 29649).



Surge Guard® Lock Hasp

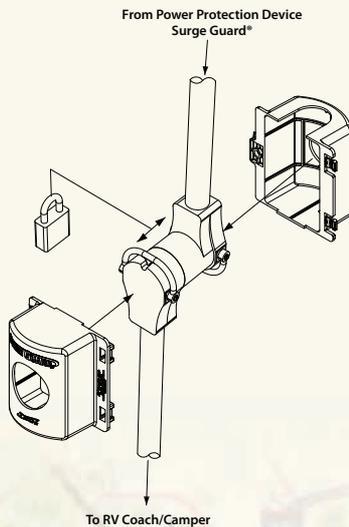
Model 34590



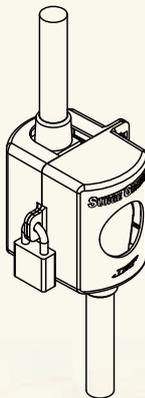
(Lock not included)

- ▶ Prevents 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.

Unassembled



Assembled

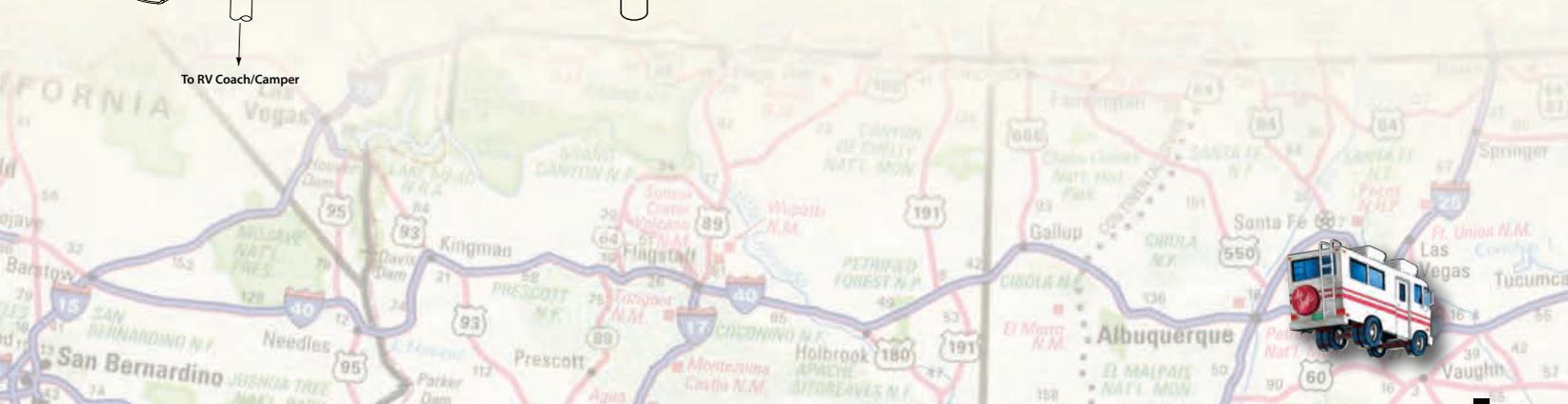


ELECTRA CHECK® Power Monitors Digital Monitor

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.



Select the level of protection your RV needs.

30A
Portable
44740



30A
Portable
AECM
10086



30A
Portable
with LCD
34730



30A
Hardwire
34520



50A
Portable
with LCD
34750



50A
Hardwire
34560



50A
Hardwire
40240



	30A Portable 44740	30A Portable AECM 10086	30A Portable with LCD 34730	30A Hardwire 34520	50A Portable with LCD 34750	50A Hardwire 34560	50A Hardwire 40240
Over/Under Voltage			●	●	●	●	●
Open Neutral Protection			●	●	●	●	●
Reverse Polarity Protection			●	●	●	●	●
Miswired Pedestal Indication		●	●	●	●	●	●
Ground Fault Protection	●						
Dangerous Current on Ground Wire Indication			●	●	●	●	
Time Delay at Power Up (2 min. 15 sec.)			●	●	●	●	●
Remote LCD Display				Optional		Optional	●
Built-In LCD Display			●		●		
Weather Resistant	●	●	●		●		
UL Listed				●		●	●
Source Power Connection Diagnostics							●
Lock Hasp Available	●		●		●		
Cord Gauge	10/3	N/A	10/3	N/A	6/4	N/A	N/A
Electrical Rating	120V, 30A	120V, 30A	120V, 30A	120V, 30A	120/240V 50A	120/240V 50A	120/240V 50A
Surge Suppression (Joules)	510	1,020	2,450	2,450	3,850	3,850	3,350
Max Spike Current	1,250A	N/A	6,500A	6,500A	6,500A	6,500A	130,000A

Select the level of protection your RV needs.

50A Basic ATS 40100



50A Limited Protection 41260



50A Full Protection 40250-RVC



90A Full Protection 41290-RVC



	50A Basic ATS 40100	50A Limited Protection 41260	50A Full Protection 40250-RVC	90A Full Protection 41290-RVC
Over/Under Voltage			●	●
Open Neutral Protection		●	●	●
Reverse Polarity Protection		●	●	●
Miswired Pedestal Indication			●	●
Ground Monitoring			●	●
Time Delay at Power Up	●	●	●	●
Remote Display (Optional)			●	●
Amperage Measurement			●	●
Third Party Listed	●	●	●	
Source Power Connection Diagnostics			●	●
Generator Dominant	●	●	●	●
Mechanical Interlocking Contactors	●	●	●	●
Electrical Rating	120/240V, 50A	120/240V, 50A	120/240V, 50A	120/240V, 90A
Surge Suppression (Joules)	N/A	2,600	3,350	3,350
Max Spike Current	N/A	76,400A	130,000A	130,000A
Contactor Rating	50A, FLA	50A, FLA	65A, FLA	95A, FLA
UL Standard	UL 1008	UL 1008	UL 1008	UL 1008

