

# SURGE GUARD®

RV Power Protection

MODEL 34750  
Portable

www.surgeguard.com

MODEL 34730  
Portable

## Installation & Operating Instructions

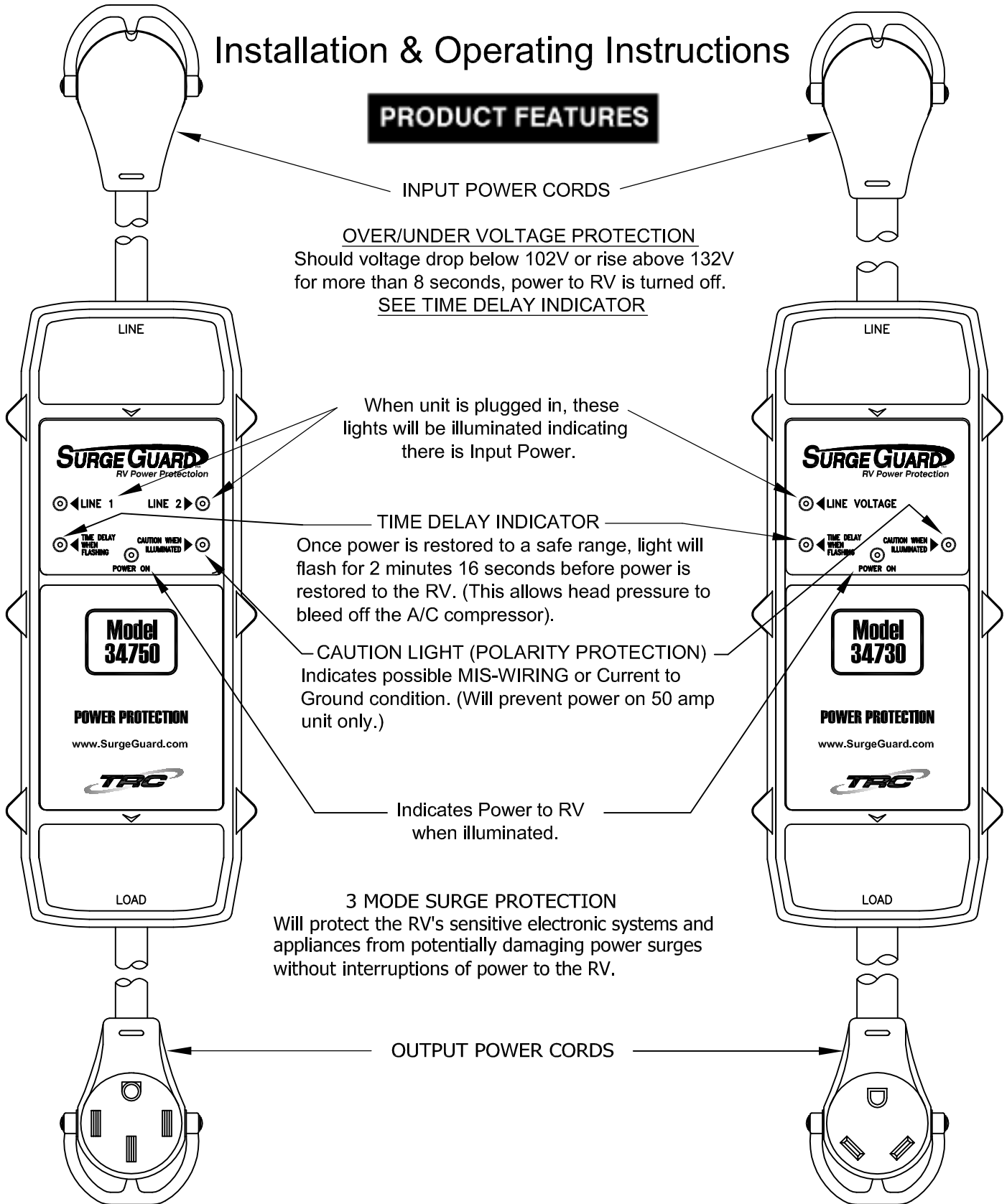
### PRODUCT FEATURES

INPUT POWER CORDS

#### OVER/UNDER VOLTAGE PROTECTION

Should voltage drop below 102V or rise above 132V for more than 8 seconds, power to RV is turned off.

SEE TIME DELAY INDICATOR



When unit is plugged in, these lights will be illuminated indicating there is Input Power.

#### TIME DELAY INDICATOR

Once power is restored to a safe range, light will flash for 2 minutes 16 seconds before power is restored to the RV. (This allows head pressure to bleed off the A/C compressor).

CAUTION LIGHT (POLARITY PROTECTION)  
Indicates possible MIS-WIRING or Current to Ground condition. (Will prevent power on 50 amp unit only.)

Indicates Power to RV when illuminated.

#### 3 MODE SURGE PROTECTION

Will protect the RV's sensitive electronic systems and appliances from potentially damaging power surges without interruptions of power to the RV.

OUTPUT POWER CORDS

### Technical Specs for the Surge Guard Over and Under Voltage Models

Features	Model 34750	Model 34730
Operating Current	50 Amps	30 Amps
Operating Voltage	120/240 Volts	120 Volts
Maximum Watts	12,000 Watts	3,600 Watts
3 Mode Surge Protection	Yes, L-N, L-N, L-G, N-G	Yes, L-N, L-G, N-G
Energy Dissipation	1750 Joules	1050 Joules
Clamping Voltage	< 300 VAC	< 300 VAC
Maximum Spike Current	6500A per MOV	6500A per MOV
Over/Under Voltage Protection	Yes	Yes
Voltage Range	< 102V - 132V > (each side)	< 102V - 132V >
Trip Time	8-10 seconds	8-10 seconds
Restoration Level	> 102V -132V < (each side)	> 102V - 132V <
Time Delay for A/C	2 minutes 16 seconds	2 minutes 16 seconds
Reverse Polarity Check	Yes	Yes
Voltage On Ground Check	Yes	Yes
Power Indicator	Yes (2 line lights)	Yes (1 line light)
Warranty	1 year	1 year
Corrosion Resistant	Yes	Yes
Easy Installation	Yes	Yes
Remote Panel	Not Applicable	Not Applicable
Industrial Contactor	Yes	Yes

### OPERATING INSTRUCTIONS - MODELS 34750, 34730

1. Plug in the Surge Guard 34750/34730 into an approved RV receptacle and plug the RV power cord into the Surge Guard.
2. Verify the line lights are illuminated, danger light is off and delay indicator is flashing.
3. Once flashing light stops flashing (this takes 2 minutes 16 seconds), verify RV power is on.

Note: Using with TRC Voltage Regulators.  
If the Surge Guard is used with the TRC Voltage Regulator (10175 or 10176) then the Voltage Regulator should be positioned between the power pedestal (shore power) and the Surge Guard.

Note: Using with power cord adapters.  
Purchased power cord adapters will work in most cases with Surge Guard but TRC does not recommend using them for full load applications due to the possibility of over-heating. Be advised that power cord adapters have been known to cause fires when Amps (electrical current) ratings are exceeded. Should you decide to use an adapter, our recommendation is to check on the power cord from time to time to make sure it is not overheating.

### FOR YOUR RECORDS

**MODEL NO:** \_\_\_\_\_

**DATE PURCHASED:** \_\_\_\_\_

**WHERE PURCHASED:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**KEEP THIS INFORMATION FOR  
WARRANTY PROTECTION**

### Indicator Light Chart

Condition description for Model 34750	Indicator light status				RV Power
	Line 1	Line 2	Delay	Caution	
Voltage on Ground	on	on	off	on	on
Startup condition	on	on	flashing	off	off
Normal conditions	on	on	off	off	on
Reverse polarity	off	on	off	on	off
Over or Under voltage condition	on	on	off	off	off
Power to line 1	on	off	off	off	off
Power to line 2	off	on	off	off	off
No power at the input	off	off	off	off	off

Condition description for Model 34730	Indicator light status			RV Power
	Line Voltage	Delay	Caution	
Startup condition	on	flashing	off	off
Normal conditions	on	off	off	on
Reverse polarity or current to ground	on	off	on	on
Over or Under voltage condition	on	off	off	off
No power at the input	off	off	off	off

### TROUBLESHOOTING

Symptom	Cause	Solution
Caution light is on.	1. Reverse polarity or voltage on ground condition is present at source power.	1. Move RV to a new electrical source.
Line 1 and or Line 2 is off.	1. Only partial power at 50 AMP source. 2. No power at the source.	1. Move to a new source pedestal. 2. Use inverter or generator power.
When first plugging into pedestal power, time delay light flashes momentarily, then goes out.	1. High or low voltage is present at source.	1. Change site or use inverter or generator power.

For further assistance call TRC at 727-535-0572



5250 140th Avenue North • Clearwater, Florida 33760 • (727) 535-0572

[www.surgeguard.com](http://www.surgeguard.com)