

30A 120V Surge Protector

- Protects against power surges and a lightning strike
- Identifies electrical wiring faults
- Detects low voltage

Use the Arcon 30A 120V Surge Protector to identify power issues and ensure correct wiring at the electrical source before you connect your RV to a pedestal or power distribution box. Detects low voltage and provides 3600 Joules of comprehensive power surge protection for all circuits: Hot, Ground, and Neutral.

Specifications	
Operating Current	30A
Operating Voltage	120V
Operating Wattage	3600W
Frequency	60Hz
Plug/Receptacle Type	TT-30P / TT-30R
Surge Protection	3600 Joules
Low Voltage Detection	Appx. $\leq 106V$
Modes of Protection	3 – Hot, Ground, & Neutral



Using the Surge Protector

- 1 Plug the Arcon 30A Surge Protector into a compatible 30A 120V power source.
- 2 The Surge Protector's lights (Figure 1) illuminate to indicate wiring or low voltage issues shown in Figure 2.

YOU WANT TO SEE THE LIGHT PATTERN FOR CORRECT WIRING.

If you see any other light pattern, the Surge Protector has detected power issues or electrical faults. Move to a different power pedestal, or follow one of the Next Steps provided in Figure 2.

CAUTIONS:

- ⚠ If there are **NO lights** illuminated:
- ⚠ Power may still pass through, but there is **NO** surge protection!
- ⚠ It may be an indication that the device has completed its service and needs to be replaced. (See FAQs in this document.)

- 3 Once a good power source is confirmed, you can connect your RV to the power output receptacle on the Arcon 30A Surge Protector.

Warnings & Cautions

- ⚠ The Arcon 30A Surge Protector has no serviceable parts. Do not open, alter, or tamper with the surge protector in any way. **FAILURE TO COMPLY WITH THIS WARNING MAY RESULT IN DAMAGE TO YOUR EQUIPMENT, PERSONAL INJURY, OR EVEN DEATH FROM ELECTRICAL SHOCK!**
- ⚠ Do not plug the Arcon 30A Surge Protector into a power source unless it has a corresponding 30A circuit breaker installed.
- ⚠ The Arcon 30A Surge Protector plug and receptacles meet strict NEMA standards. Make sure all receptacles and plugs on connected devices are properly wired and in good working condition (e.g. no frayed cords, loose connectors, or missing pins).
- ⚠ If the Arcon 30A Surge Protector indicates an open ground, connecting your coach is not recommended. Ungrounded power systems are inherently unstable and can produce excessively high line-to-ground voltages during certain fault conditions. During these fault conditions any electrical equipment, including a surge protection device, may be subjected to voltages which exceed their designed ratings. This information is being provided to the user so that an informed decision can be made before installing any electrical equipment on an ungrounded power system.

FIGURE 1 — Surge Protector Lights

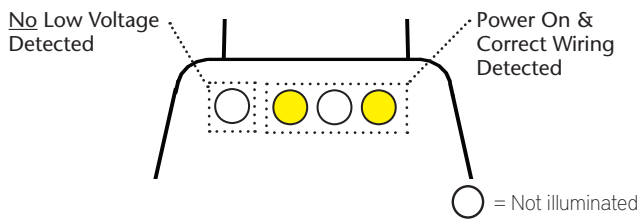


FIGURE 2 - Wiring Indicators



GO!
POWER ON, CORRECT WIRING & No Low Voltage



No Go.
No Power; Low Voltage; Incorrect Wiring

CORRECT WIRING

PATTERN	INDICATES	RESULT	NEXT STEPS
○ ● ● ●	POWER ON, CORRECT WIRING, & No Low Voltage		Connect your RV to the surge protector output.

INCORRECT WIRING

PATTERN	INDICATES	RESULT	NEXT STEPS
○ ○ ○	No Power Open Hot		1. Check the circuit breaker for the pedestal. 2. Contact RV park management. 3. Connect to a different pedestal.
● ○ ○	Open Ground		1. Contact RV park management. 2. Connect to a different pedestal.
● ● ○	Reverse Polarity		
● ● ●	Open Neutral		
○ ● ●	<ul style="list-style-type: none"> • Hot/Ground Reversed • Hot/Neutral Reversed with Neutral Open 		

LOW VOLTAGE

PATTERN	INDICATES	RESULT	NEXT STEPS
● ● ● ●	Low Voltage is Detected. The red light indicates the line voltage is $\leq 106V$.		1. Contact RV park management. 2. Connect to a different pedestal.



WARRANTY

30A 120V Surge Protector

Limited Product Liability

LKQ Specialty Products Group warrants that the materials and electronics within the housing of the Arcon Surge Protector (30A or 50A models) are to be free of defects in materials and workmanship for a period of one (1) year from the date of original retail purchase.

Eligibility

To be eligible for warranty replacement, the product must be purchased in the United States from an authorized retailer and proof of purchase is required. This warranty applies to the original retail purchaser only, and is not transferable.

Coverage

LKQ Specialty Products Group's liability is limited solely to the replacement of the defective product. Warranty coverage is for any failure that is proven to be a failure in material or workmanship under normal use during the applicable warranty period.

To Obtain Warranty Service

LKQ Specialty Products Group may request that defective parts be returned. It is the responsibility of the end user to return the product as directed by the warranty administration center. Anything replaced under warranty becomes the property of LKQ Specialty Products Group. Do not return the product to the store where you purchased it. Contact our national customer service center at: 800-495-5858. If contacting us by fax or e-mail, be sure to include a description of the problem as well as your contact info (name, address, phone, fax, and e-mail) along with proof of purchase.

Exclusions

THIS WARRANTY DOES NOT EXTEND TO PARTS AFFECTED OR DAMAGED BY ACCIDENT AND/OR COLLISION, NORMAL WEAR, DEGRADATION, USE IN AN APPLICATION FOR WHICH THE PRODUCT WAS NOT DESIGNED, OR ANY OTHER MISUSE, NEGLIGENCE, INCORPORATION OR USE OF UNSUITABLE ATTACHMENTS OR PARTS, UNAUTHORIZED ALTERATION, OR ANY CAUSES OTHER THAN DEFECTS IN MATERIAL OR WORKMANSHIP OF THE PRODUCT.

This warranty does not cover any:

- Damage or injury caused by improper use and/or failure to obey safety warnings and instructions.
- Damage caused by anything the surge protector is connected to.
- Damage to the outside case or cords.
- Acts of God, normal use wear and tear, depletion, modification or abuse.

Disclaimer of Consequential Damage and Limitation of Implied Warranties

LKQ SPECIALTY PRODUCTS GROUP DENIES ANY RESPONSIBILITY FOR LOSS OF TIME OR USE OF THE PRODUCT, TRANSPORTATION, COMMERCIAL LOSS, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGE. ANY IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WRITTEN LIMITED WARRANTY. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages. Therefore, the above exclusions and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

FREQUENTLY ASKED QUESTIONS

Why does the Arcon 30A Surge Protector detect low voltage?

Low voltage can cause damage to an electrical appliance because of unexpected shut down or as a result of components overcompensating, burning out, overheating, or feeding back. If you detect low voltage at a power source, you should avoid connecting to that source and move to an alternate 30A 120V power source.

Can I use an extension cord with the Arcon 30A Surge Protector?

Yes, as long as the extension cord is rated at 30A or higher.

Does the Arcon 30A Surge Protector offer protection from a lightning strike?

Yes.

Can I use a power cord adapter with the Arcon 30A Surge Protector?

Yes, if it's rated properly and in good condition. Remember that adapters are meant for temporary use.

Can I use a voltage regulator with the Arcon 30A Surge Protector?

Yes, as long as the voltage regulator is rated at 30A or higher. Connect the voltage regulator after you connect your surge protector to the power source.

Will my Arcon 30A Surge Protector last forever?

No. In fact, surge protectors usually wear out in a few years or less. This is due to the components being exposed to persistent voltage fluctuations and suppression of unwanted voltage spikes over time. A surge protector is a consumable device that degrades when it is exposed to surges until it has sacrificed itself to protect your RV. The rate at which it degrades is dependent on the number and size of the surges it is protecting your RV from. One or two very large surges could degrade it or it could protect your RV from thousands of small surges. Once the indicator lights don't illuminate and you've confirmed this condition with multiple power sources, then the device has served its purpose and it's time to be replaced.