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The tread surge is essential for: PC and computer peripherals such as printers, monitors and routers TVs, DVRs, cable boxes, satellite receivers, sound systems and other components of home theater video game lighting systems, tools, small appliances, and office equipment Note: If you need to protect your computer, consider a continuous power source (UPS) that provides protection against the jump and backup of the battery. Surge protectors use a joule rating to indicate the total amount of surge voltage they can absorb without sniffing, whether in a single event or during a series of jumps. A higher joul rating usually indicates a stronger defense. Some splash treads use LED lights and/or beeps to show that they no longer provide an adequate level of protection against connected equipment. These metrics should be monitored regularly, so the spike can be replaced immediately if necessary. For added security, splash protectors can offer an automatic disconnection feature that prevents power from reaching connected devices completely if protection becomes inadequate. How to choose a surge defender I wonder what to look for in the splash protector? These three questions will help you determine what kind of splash protector you need. The value of the equipment you want to protect is the most important factor when choosing a splash tread. Devices that are crucial to work/home life and those that are otherwise expensive or fragile require more protection. A higher joule rating is the best more protection. Choose a splash tread with a joule rating of at least 200 to 400. Sensitive or expensive equipment, such as computers, displays and audio/video equipment, guarantees a joule estimate of at least 1,000. The 2000 Joul rating indicates maximum protection. Count the devices that you want to connect to the splash tread and purchase a model with the same number of outlets. If any of your devices have the right-angle plugs or transformers, be sure to choose a model with an adequate distance between the sockets to accommodate them. Consider whether you'll charge USB devices against jump protection and identify models with USB-A charging ports to avoid using adapters. If protection becomes compromised, will you be able to easily see THE LED lights and/or hear your splash tread alarm? If you want to protect devices that work while you're not in close proximity, be sure to choose a model with automatic shutdown function. If you need to mount your splash tread on the wall or along the side of the table, make sure it has mounting tabs or screw holes. If the furniture or other items are between your splash protector and its AC socket, estimate the distance between them and buy a device with a sufficient length input cord. Models with the right angle of the fork may be able to better negotiate tight communication spaces. If your splash tread will be installed in an area with high foot movement or otherwise may be vulnerable to accidental exposure, consider a model with a metal body. How to choose a splash tread: Additional considerations and features look for splash protectors that protect hot, neutral and ground lines (3 lines of protection) for the most thorough protection. Computers and network equipment may be subject to voltage spikes traveling on Ethernet cables (or coaxial/phone/modem). If you're using an Ethernet wired connection for your computer, look for a splash protector with one or more secure Ethernet connectors. In the line, splash treads can offer protected Ethernet ports to protect power over Ethernet (PoE) applications. Hospital class surge protectors have safety extended sockets and plugs. They can also include special features that protect against electric shock and antimicrobial coating to inhibit bacterial growth on the device. Some splash treads offer the ability to power on individual devices without interrupting power for all connected devices, which can improve efficiency and convenience in device management. If you're traveling with equipment that needs protection, look for splash protectors with folding plugs and compact structures that can easily be stored in luggage, wallets, briefcases and backpacks. Some in the PoE line splash IP66 protectors are rated for dust and water resistance. They are ideal for outdoor applications such as security cameras or digital signage. The job of treading a splash is to absorb the brunt of the jumps and spikes, so your equipment should not. This will take a toll over time, so look for models that come with lifetime replacement warranties, as well as insurance to repair or replace any connected equipment damaged by jumps. Tripp Lite's Isobar® is the gold standard in horse racing protection with over 20 million units sold It protects up to 5,100 JOules of the required IT equipment and provides strong EMI/RFI protection. Models offer data line protection, USB charging, metal body, automatic shutdown and other key features. With up to 12 points in various form factors and cord lengths up to 25 feet, there are Isobar options to fit a wide range of environments. Features vary depending on the model. Frequently asked questions Don't confuse treads from jumps with power bands. Both products provide sockets to power multiple devices from a single wall socket, and power strips often look like splash protectors. But only splash treads will protect connected devices from voltage spikes and line noise. Look for words on a product or packaging like splash, protection or suppression, and look for a joule rating. Voltage jumps and power jumps can be differentiated in duration, with a power surge lasting 1 or 2 nanoseconds and a voltage jump lasting 3 nanoseconds or more, sometimes a few seconds or even minutes. A burst of power, while shorter, can include a much higher voltage increase and is often caused by an electric storm. Both bursts and jumps can damage devices, damaged data on computers, and in extreme scenarios they can lead to fires. Yes. Products such as uninterrupted power supply (UPS) and electricity distribution unit (PDU) typically include a degree of protection against jumps. UPS will also back up the battery for connected devices in the event of a AC power outage. Look for some of the same criteria as joule rating to evaluate the protection they provide. Make sure your RoHS splash tread (Dangerous Substances Restriction) is compliant. Features such as individual outlet control and other special circuits will reduce energy consumption and reduce utility bills. It depends on the evaluation of the joule device and the frequency and severity of the jumps it absorbs. The key is to check the LED indicator to ensure your device provides an adequate guard and/or purchase a jump protector with automatic shutdown function. Glossary Automatic Shutdown - A feature found on some splash treads that automatically prevents power from reaching connected devices once the suppression scheme on the splash tread has been compromised. EMI/RFI - Electromagnetic interference (EMI)/ Radio frequency interference (RFI) are distortions or linear noise on alternating times, phone/modem, network or coaxial lines. They usually show up as audio static or video snow and are caused by other equipment working on the same electrical system as the affected device. Joule Rating - Surge Use a joule rating to indicate the total amount of voltage surge they can absorb without sleeping, whether in a single event or during a series of jumps. The 400-600 joule rating indicates a minimum level of horse-defense, while the joule rating of 1000 or more is considered a high level To learn more about joule ratings, click here. MOVs - Metal oxide oxide watchers are triggered when excess current passes through the splash tread. They are components in the device that actually absorb the splash from the power source and divert it to the ground wires. PoE - Power over Ethernet, as the name suggests, is a technology for delivering electricity and connecting to the network through a single Ethernet cable. This makes it ideal for powering and connecting IP devices such as security cameras, access control readers, wireless hotspots (WAPs), VoIP phones, POS systems, sensors and lighting. Power Surge - Voltage surge is a temporary, undesirable and potentially dangerous increase in the electrical system. This is most often due to power outages, followed by a resumption, in which the line voltage is higher than normal. Power Spike - Very short (1 or 2 nanoseconds) and a potentially extreme voltage increase in the electrical system, often caused by an electric storm. Proof of warranty you must provide proof that the product is covered by the warranty. This can be confirmed by a serial product number or proof of purchase in the form of an invoice or receipt from an authorized Tripp-Lite dealer. If necessary, please encommer your return with proof of purchase. The Tripp-Lite warranty starts with the date your product is purchased. Guarantee coverage varies depending on the product line. The specific warranty period is described in the user manual that comes with each device. Returns you are responsible for all transportation, insurance, customs and other similar fees for returned products. Please be careful: you are responsible for the transport damage caused by the wrong packaging. We recommend using a reliable carrier or carrier that is able to provide tracking information and proof of delivery. Proof of purchase if necessary and your RMA number must be enclosed with a delivery box before the boxes are sealed. Repair or replace Tripp Lite repairs or replaces the product of Tripp Lite's choice and returns the refurbished or replaced product to you for free. Products that do not have a valid RMA number are not accepted. The RMA number must be enclosed with its product or clearly visible on the outside of the package. The RMA Number is required for all products returned by Tripp Lite for warranty replacement. You should consult with Tripp-Lite Customer Service (for return to North America) or international customer service (for returning outside North America) before using the RMA number to avoid unnecessary returns. You can start the process by clicking on the Contact Technical Support button below. Once the permit has been determined, you will receive the RMA number and the delivery information by email. RMA numbers are valid for 14 days from the release date. 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