How Uninterruptible Power Supply Works

WHAT IS UPS?

An uninterruptible power supply is an appliance that keeps your equipment running when your main supply of power fails, maximizing your company's uptime. The amount of uptime provided to your computers will vary greatly depending on the size and kind of UPS used. A UPS will also intercept power surges so that none of your equipment is affected.

THE MAIN COMPONENTS OF A UPS

RECTIFIER

The rectifier serves two primary purposes for the UPS. First, the rectifier keeps UPS batteries charged so that they maintain proper float voltage. The rectifier also takes incoming alternating current (AC) power and turns it into direct current (DC).

STATIC BYPASS

The static bypass circuit safeguards your power supply if your UPS system fails. The static bypass will direct incoming power around the UPS batteries, inverter, and rectifier to deliver unconditioned power immediately to your equipment.

BATTERY

The battery is what supplies power to your IT load in the event of a power failure. Over time, UPS batteries will need to be replaced, as their life expectancy decreases each time they go through a cycle. Your UPS battery system requires regular monitoring and maintenance to ensure your unit is always in good health.

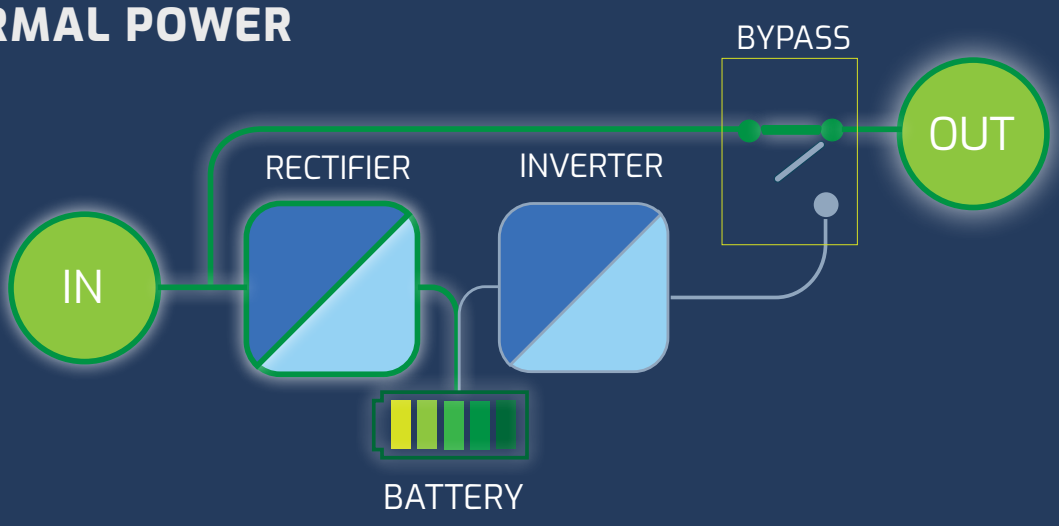
INVERTER

The inverter takes the DC charge from your UPS battery and converts it to an electrical current output to power the devices connected to it.

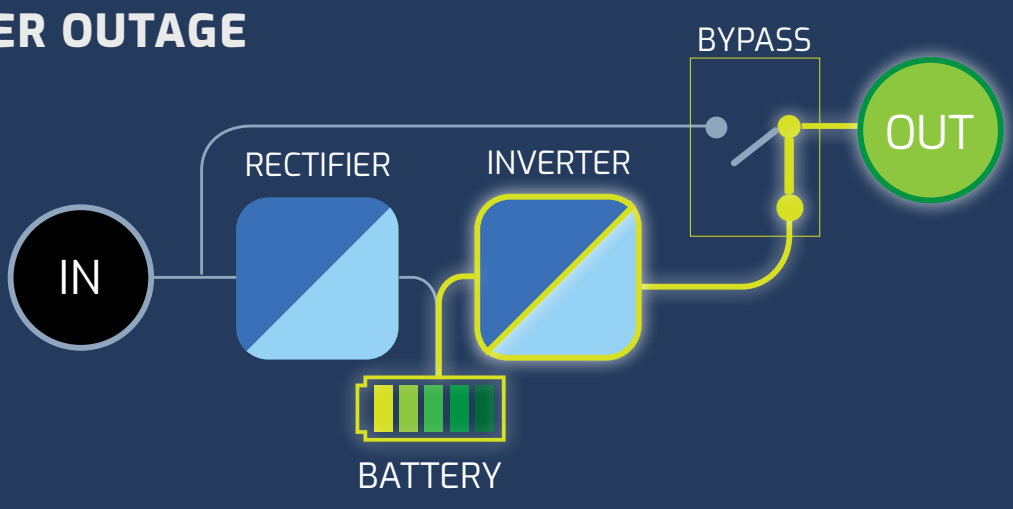
HOW DOES IT WORK?

A UPS works by relying on a battery that activates once your power goes out. The UPS unit will notify you of the power anomaly so that you can safely shut down your devices and save your data before your power completely cuts off.

NORMAL POWER



POWER OUTAGE



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