

# Power Supplies, Current & Voltage

## Power Supplies

When using an LCD display or monitor using the correct power supply is vital. Not using the correct power supply could damage it.

Always use the power supply it came with, or alternatively use a power supply with the correct voltage and current to support the monitor, which should be found on the original power supply should this fail.

## Current

When using an LCD display or monitor, checking that the current of the power supply is enough to support the monitor is essential.

A monitor will only draw the current that it needs to run, therefore having a power supply with a higher current rating is fine but not giving it enough could potentially damage the monitor as it will be trying to pull power but it may not be enough to run properly, and this in most cases can cause damage.

This can cause components within the LCD monitor to break and could cause long term damage to the monitor, so it may not work at all, rendering it useless.

The easiest way to check how much power a monitor needs, is to give us a call with the serial number of your monitor and we can then tell you what power it needs. Another way that you can tell how much it will need is the size and type of display that the monitor has.

Based on the most common 12vDC power supply for example, if you had a 24" display then it would probably take around 5-7 Amps, whereas if you had the same size display but the LCD panel was sunlight readable, it would probably draw around 10-15 amps as the display is using more current.

## Voltage

Voltage is also very important, so please check the power supply when using your monitor. The same as current, not checking this could cause vital damage to the internal components of your monitor and could result in this not working.

If you know the type of power supply you require for example a 12vDC 3amp power supply, then replace it with a power supply of the same rating or higher; for example 12vDC 5amp.

Again, if you don't know what power supply your monitor needs, please give us a call and we'll be happy to assist you in any way that we can.

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## Connector

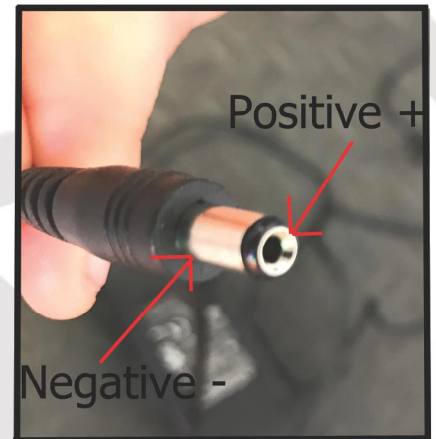
Electrical polarity is a term used in many fields and industries that involve electricity. There are two types of poles, Positive (+) and Negative (-), this represents the electrical potential at the end of a circuit.

When using a power supply, another thing to check is the power connector that you are using has the correct polarity for your monitor.

Usually on the end of a power supply for example a 3.5mm DC jack the internal part of the cylinder is Positive (+) and the outside is Negative (-).

Some power supplies have the positive and negative the other way around, so the positive on the outside and the negative on the inside, therefore it's essential to check because if the polarity on the power supply isn't the right way round for the monitor the monitor just won't work.

Here is a picture pointing out the end of a power supply for reference.



## CE Marked

On the back of your power supply, you can find lots of useful information such as the voltage, the current the power supply outputs and also whether it complies with the European Health & Safety and Environmental Protection Legislation.

The image of the power supply on the right has the CE mark and is safe to use for powering a monitor and also conforms to the European Electrical Safety.

If you have a power supply without this mark, then it shouldn't be used as it might not be safe and could pose a risk to your display.

**If you require further advice or technical help, please don't hesitate to give us a call on **01782 567 979****

**or email us at [support@flatvision.co.uk](mailto:support@flatvision.co.uk)**

