

The importance of using 12V DC REGULATED power supplies

CCTV cameras contain very delicate electronics that have little tolerance to increases in voltage above the rated input level, most CCTV cameras have a DC voltage input rating of 12V with a tolerance of +/- 10% meaning the maximum applied DC voltage that the camera can handle is 13.2 volts.

Because of this it is very important that the correct power supply is selected to power your cameras as any PSU rated above 13.2 volts (such as alarm power supplies) can cause irreversible damage to your cameras and thus void your warranty. Obviously if the camera is rated at 12V DC it is correct to select a power supply rated at 12V DC **BUT** not all PSUs rated at 12V DC actually give that out, a 12V DC unregulated PSUs output voltage is not fixed and can rise by as much as 50% meaning you could be applying over 18 volts to your delicate cameras which would without doubt damage them beyond repair.

Regulated power supplies contain a very important component known as a regulator which acts as a failsafe to the output voltage thus clamping it at a certain level (a 12V DC regulated PSU will usually have a clamped output voltage of 12.5V DC) if the output voltage rises above the clamped level the regulator will dump this additional voltage to ground thus maintaining a constant level output voltage that never changes.

Incorrectly rated power supplies will either damage or severely reduce the life of your CCTV cameras and because of this Dynamic CCTV only sell and recommend DC **regulated** PSUs, please use below link to our website where you can see our full range.

<http://www.dynamic-cctv.com/index.php/power-supplies/12v-psu.html>

Remember camera damage due to incorrect power supply selection will not only cost you money and valuable engineer time but also void your warranty so if in any doubt please do not hesitate to contact our technical department on 01642 207242 where we will be more than happy to advise you further.