

IMPORTANT INFORMATION

Your DCCconcepts Alpha-Power Power supply is designed & manufactured to a very high specification and will deliver smooth, stable power irrespective of load or supply voltage variations. Alpha-Power has also been designed and tested for full compliance with all applicable CE and FCC standards.

Alpha-Power general specifications:

Input voltage: 100V~AC to 240V~AC, at 50 or 60Hz.
Mains Protection: 1.5 amps @ 100v, 0.75 amps @ 240v.
DC output: 18v DC, tightly regulated.
DC output power: 5 amps (90w) continuous (0~5A)

Alpha-Power is of course the perfect power supply for our DCCconcepts Alpha-Box or DCCconcepts DCC systems and has also been carefully tested with many other DC and DCC system brands, delivering excellent results.

ALPHA-POWER PROTECTION

With so many small electrical items on a model railway, it is easy to just keep adding items to a power supply load and be unaware of the total load level, so Alpha-Power has high quality, active overload protection.

If you exceed the maximum rated loading, have a short term overload or any unexpected short circuit condition it will trigger protection as follows:

OVERLOAD: Alpha-Power will operate reliably to its full 5 amps rating.

If you exceed this load level Alpha-Power will warn you clearly by turning on the overload LED and activating a warning sound. *Alpha-Power will also immediately reduce voltage and lower power output to prevent damage.*

Action: Alpha Power re-checks automatically and turns off warnings if the overload has been removed. However, if the overload is NOT removed the beeping will get louder, reminding you of the need to fix the problem area.

If the warning does NOT stop: Double check all connected items and your wiring to reduce load. Turn off, and wait 5 seconds before turning on again.

SHORT CIRCUIT: If a short circuit occurs Alpha-Power acts immediately.

It will warn you clearly. The LED will turn on and there will be a beeping sound. Alpha-Power will reduce power to almost zero to prevent damage. (We maintain a tiny check-voltage as this also prevents power-on spiking)

Action: Alpha Power will re-check automatically and turn off warnings if the Short-circuit has been removed. If the beeping does NOT stop, the problem is still there so turn Alpha-Power off, re-check all connected items carefully and clear the short circuit before you turn Alpha-Power on again.