

# ***D&A 3310&20 power supplies***

## ***Introduction***

The 3310&20 modules supply power to the 3U rack mounting frames in the expanding D&A distribution system. Designed to the highest specification, and meeting all relevant international standards including CE approval, digital and analogue audio and video modules can be mixed within a frame to satisfy a wide variety of interfacing requirements.

Up to 14 modules can be housed in the 3301 3U frame with a single power supply or 12 in the 3302 3U frame with dual power supplies.

## ***Description***

The power supplies are fully enclosed units which load into frames from the front and are retained by a fixing at the rear. An IEC mains inlet is incorporated within each unit. The appropriate supply voltage is automatically detected. Units provide cooling for the rack mounting frame by drawing air through the frame and expelling it at the rear of the rack.

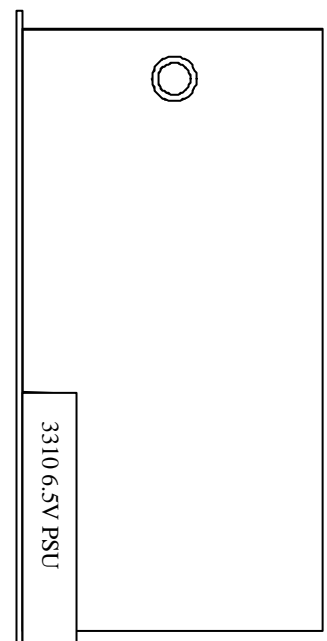
An LED on the front of the module, when green confirms correct operation, when red that there is a fault. (The frame LED turns red and the external alarm is triggered when a power supply LED is red or off.) The module incorporates full over-voltage and over-current protection. Over-temperature or other faults trigger the alarm system in both single and dual power supply operation.

The 3310 6.5V unit is used to power racks containing any mix of modules other than 3701&2 analogue audio distribution amplifiers (which require a higher voltage). The 3320 14.5V module is used for the 3701&2 analogue audio distribution amplifiers and any other modules which can run on either voltage (currently 3501&2 analogue video distribution amplifiers). The 3310 & 3320 power supplies *cannot* be mixed within a frame and are coded to prevent incorrect operation. (Identification labels on the front of power supplies and modules for 6.5V operation are coloured blue, 14.5V yellow and either voltage green.)

These units are designed for maximum reliability with a high MTBF.

## ***Features***

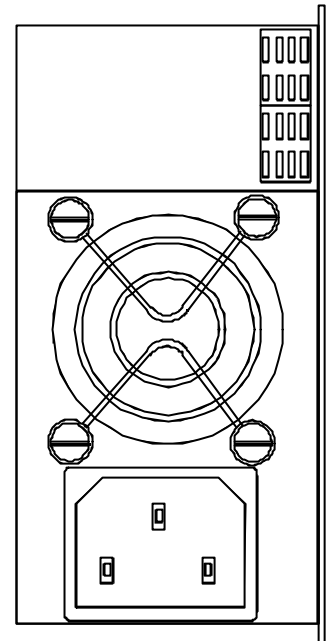
- Compact module with high power output.
- A single unit powers up to 14 modules in the 3301 3U rack mounting frame.
- Two modules provide backed up power for up to 12 modules in the 3302 3U rack mounting frame.
- Reliable and highly efficient switched mode supply with an integral frame-cooling fan.
- Front panel LED indication of power supply status.
- Frame status LED and external alarm triggered for any faults.
- Designed to comply with international safety standards.



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## Specification

<i>Input</i>	
Voltage	Auto selected 98-135VAC 2A, 170-265VAC 2A, 45-65Hz
Connector	IEC
<i>Output</i>	
Voltage	3310 $\pm 6.5V$ DC regulated 3320 $\pm 14.5V$ DC regulated
Power	>100W
<i>Performance</i>	
Safety	BS-EN60950
Efficiency at full load	75% typical
Line regulation	$\pm 1\%$
Output regulation	2% (10-90% load change)
Output ripple	<150mV peak-to-peak to 10MHz
Operating temperature	0-70°C Alarm warning @ 60°C
MTBF	>100,000hrs @ 30°C
Alarm conditions	Loss of power & over-temperature/current/voltage



## Ordering information

Part no.	Description	Weight	Height	Width	Depth
3310	6.5V power supply	750g	100mm	50mm	300mm
3320	14.5V power supply for analogue audio DAs	750g	100mm	50mm	300mm
3301	3U frame for single power supply and up to 14 modules	2000g	133mm(3U)	478mm(19")	300mm
3302	3U frame for single dual power supply and up to 12 modules	2000g	133mm(3U)	478mm(19")	300mm

We reserve the right to change technical specifications without prior notice. E&OE.

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