

Model DSA4 Power amplifiers

- * *Highly efficient switched mode amplifier*
- * *Outputs from 4kVA to 120kVA*
- * *Meets all EU Directives for safety, low voltage, EMC and RFI*
- * *Includes shaker drive, field and degaussing supplies*
- * *May be used to drive shakers from all other manufacturers*
- * *Full range of safety interlocks to protect the amplifier and shaker*



The DSA4 is a highly reliable and well proven air-cooled power amplifier. Compliance with EMC requirements has been a major factor in the design of this equipment and full use has been made of Faraday cages, filtered interconnections, segmented wiring, common mode chokes, mains filters, optical signal coupling and screened cables. The DSA4 is in service all over the world driving GW's range of shakers, it has also proved to be a very effective replacement for older amplifiers driving other manufacturers' shakers and for driving other reactive loads such as underwater transducers.

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Specifications

Performance Specifications

Amplifier output voltage	72V
Output current per module	56A
Shaker field voltage	140V
Signal to noise ratio	> -75dB
Distortion 5Hz to 2kHz	< 0.4% thd
Distortion 2kHz to 5kHz	< 1.0% thd
Distortion typical	0.2% thd
Frequency range	3Hz to 5kHz
Input sensitivity	2V into 10k Ω
Relative humidity	0% to 90% (non-condensing)
Working temperature	0° to 40°C
Power supply	380V to 480V 3 phase, no neutral



Description

The DSA4 uses 4kVA power modules connected in parallel to produce amplifiers with outputs ranging from 4kVA to 120kVA. Each amplifier module consists of two independent half bridge amplifiers configured for full bridge operation. Each half bridge operates as a transconductance building block, with input voltage giving rise to output current, in order to share current demands between the total number of installed modules.

The DSA4 cabinet also includes a field supply for the shaker and a degaussing supply to minimise stray magnetic field. An optional facility may be included to reduce the field supply during tests which do not require the full output capacity, thereby saving on power consumption.

Alternative field supplies and degaussing supplies may be installed to drive shakers produced by other manufacturers.



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