

- ▶ Class D Powered
- ▶ Integrated Digital Processing
- ▶ Internal temperature control
- ▶ Electronic protection
- ▶ Bass reflex sub unit
- ▶ Online control available



APPLICATION:

- Front fill / Side Fill / reinforcement
- Smaller clubs / discos
- Smaller live stages / events
- Portable installation

GENERAL DESCRIPTION:

The compact, portable, multi-purpose GR-18S sub bass cabinet is has been designed to offer the utmost sound reinforcement reliability, incorporating the latest acoustical and electrical technology and delivering incredible, dynamic sound.

The ADP-18S is an extremely high power sub bass cabinet providing exceptional low frequency reinforcement for the GR-12. It uses one 18" (4" DUO voice coil) transducer with aluminium demodulating ring in direct radiation bass reflex configuration.

The GR-18S is powered with a total of 1000W of class D amplification. Each cabinet has a DSP integrated for system protection and optimization. Other features include temperature sensor, fan speed control, Ethernet options and many more.

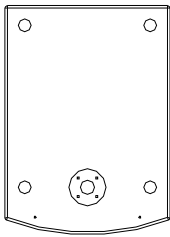
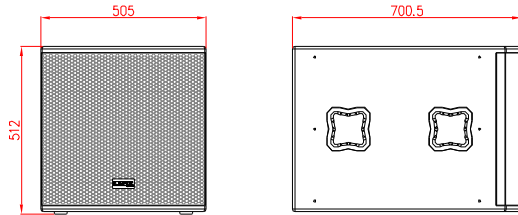
The GR-18S has an unbeatable power to size ratio, there is no need for external amplification racks, is very Light weight and as such is the ideal solution for portable or fixed sound reinforcement enabling quick and easy set-ups. A wheel kit is available for transportation and an integrated pole mount enables easy satellite configuration with the GR-12.

SPECIFICATIONS:

FREQUENCY RANGE	35Hz -150Hz
FREQUENCY RESPONSE	42Hz- 100Hz ± 3dB
COVERAGE	360° (one unit)
MAX SPL	130dB/ 133dB peak 1w@ 1m
TRANSDUCERS	LF: 18"
POWER AMPLIFIER	1000W Class D with Switching Power supply
DSP	Internal processor DSPB-22®
CABINET ADJUSTMENT	Back panel LCD screen
INTERNAL CONTROLS	Temperature sensor / Fan Speed control
SIGNAL CONNECTION	NEUTRIK connectors XLR Male Input XLR Female Loop Thru
CONTROL CONNECTIONS	USB (DSP programming), ETHERNET* (Online Control System OCS)
AC POWER	230v / 115v selectable. 50/60 Hz 5A
AC CONNECTIONS	16A NEUTRIK POWERCON Looping Output
CONSTRUCTION	18 mm Premium Birch plywood
FINISH	High resistant water-based black paint
FRONT DESIGN	Black antirust steel grille with foam protector
DIMENSIONS (H x W x D)	512 x 505 x 700 mm
WEIGHT	47 Kg (103 lbs)

* Ethernet connection is optional.

- Transport wheels (optional)



Dimensions in mm.

KEY FEATURES AND BENEFITS:

- **SELF POWERED:** 1000W Class D with switching power supply amplifier for the 18" transducer. The amplification far exceeds the transducer needs thus resulting in high output, high damping factor and extremely low levels of distortion. The module is also equipped with extensive protection circuitry including power limiters, thermal shutdown, short circuit & overload and clip limiter.

- **DIGITAL PROCESSING & DOUBLE DYNAMICS:** Latest generation 24bit/96Khz digital processor which optimizes the system components. It includes 2 channel processing electronics with functions for phase correction, driver protection, gain control, equalization and crossover, using double precision filters with 56bit internal processing. This enables a noticeable reduction in distortion with clean and clear equalization. The DSP incorporates sophisticated double protection limitation; RMS and Peak. The RMS limiter is used to adjust the transducer reproduction level, maintaining the original dynamics whilst at the same time respecting the original transients and achieving a better acoustical result. The Peak limiter controls the movement of the speaker, protecting it from any damage and also reducing distortion caused by over-exursion. These double dynamics lower levels of distortion and provide protection for all the speaker components and internal electronics.

- **TEMPERATURE & PROTECTION CONTROL:** Via internal sensors a micro controller analyzes in real time the temperature of each power module. It then automatically adjusts the fan speed to apply the correct temperature dissipation, reducing both the speed of the fan and the noise generated leaving the system as quiet as possible.

- **LCD SCREEN:** Located on the cabinet's back panel the LCD shows information such as the preset name, gain level and temperature and enables the user to select between presets.

- **COMPONENTS:** Transducer with aluminium demodulating ring and waterproof cone (both sides) for outdoor use & forced air convection circuit for low power compression. DUO double layer inner/outer voice coil Designed with Mechanical Mirror Suspension System (MMSS) for high control, linearity and low harmonic distortion. Malt Cross Cooling System and F.E.A. magnet topology maximising flux density in the air-gap and completely eliminating magnetic field leakage and thus avoiding any possible magnetic interference with other electronic equipment.

- **HARDWARE:** Cabinet constructed from premium birch plywood and finished with high-resistant water based black paint.

SOFTWARE:



- ONLINE CONTROL SYSTEM

Offers detailed system information for each cabinet and via ethernet or PC controls the cabinet/s in real time.



- RAINBOW

Acoustical Prediction software for accurate loudspeaker planning offering both horizontal and vertical views.