

DYNACORD

PROTECT



POWER



STANDARD

PRECISION

AMPLIFIERS



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English

S 900 & S 1200

STANDARD

PRECISION

AMPLIFIERS

Designed as “working horses” and based on the Linear Precision Series amplifiers, the STANDARD PRECISION Series power amplifiers’ efficiency and durability meet the extreme standards of any on-the-road application, providing reliable protection against thermal and capacitive overload, short circuit, and the occurrence of HF and DC at their outputs. In addition, special protective circuitry prevents the power transistors from being damaged by Back-EMF. During power-on, delayed switching of the power amplifiers’ power outputs is accomplished via relays. A limiter

controls the initial current inrush, preventing the mains fuses from being blown during power-on operation (soft start).

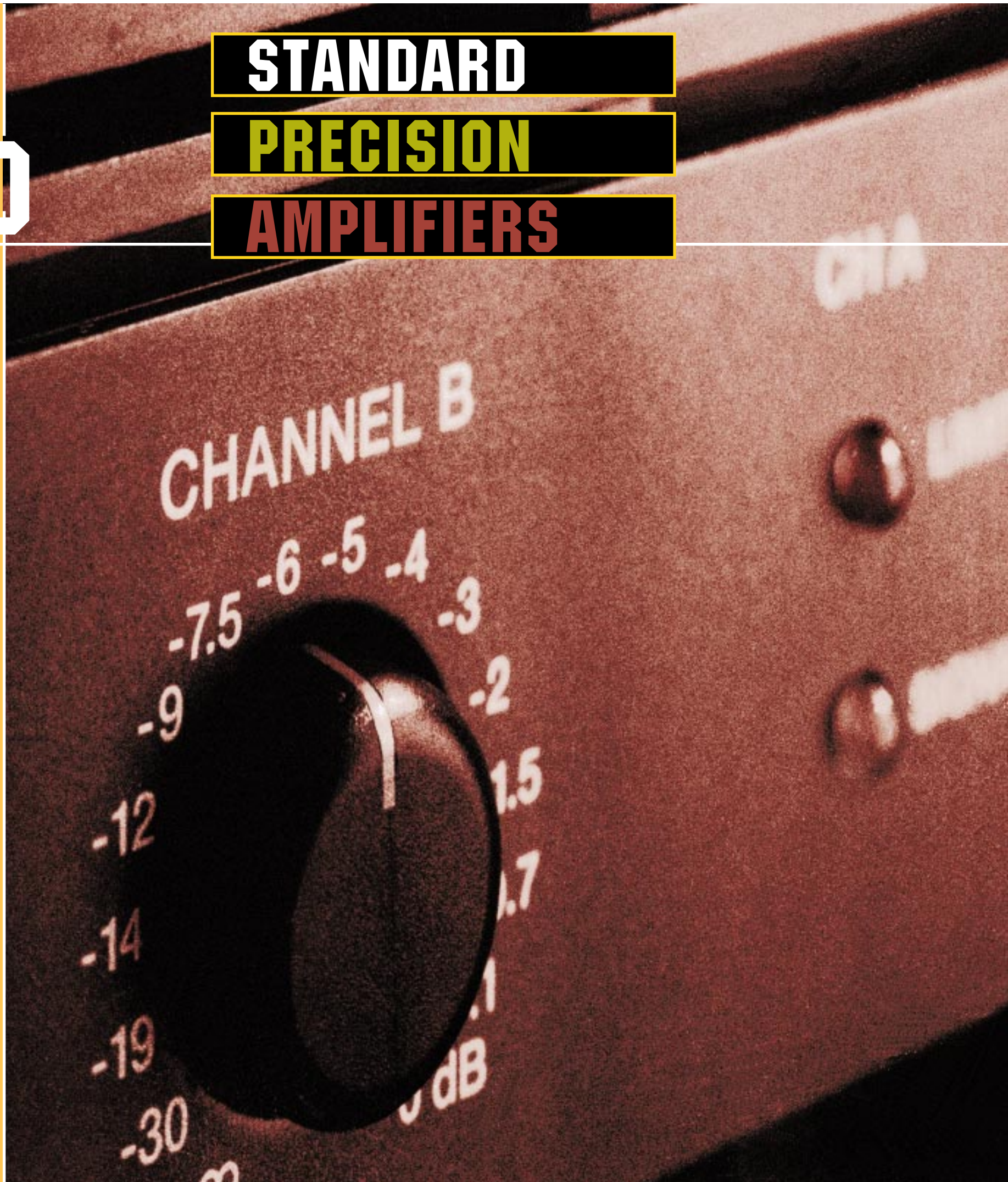
Mechanical construction and manufacturing follow the industry’s highest precision standards. The robust steel chassis provides extreme rigidity and is meant to live through any hard wearing condition of touring applications. Thermal stability is guaranteed by two 3-Mode (off/slow/fast) silently running fans allowing trouble-free use of the amplifiers even in a studio environment.



[S 900]



[S 1200]



POWER & SAFETY

The extensive **[COMPARATOR CIRCUITRY]** constantly monitors the input and output signals and activates the internal limiters whenever a non-linear operational state is encountered. Thus providing reliable protection of the connected loudspeaker systems against overload and clipping.

The STANDARD PRECISION SERIES power amplifiers sound quality is absolutely outstanding.

Using comprehensive dimensioned **[POWER SUPPLY UNITS]** with low-interference toroidal transformers gains a headroom that exceeds the nominal power handling capacity by far. No V/I-Foldback-Limiter circuits are employed within the power amplifiers, making it possible to operate the amps on complex loads up to $\pm 90^\circ$ phase angles without a problem.



The easy readable LED display offers quick optical information on the power amplifiers' momentary operational mode.



The display shows for each channel separately whether it is operational, a signal is present at the output, when the limiters are activated, and if one

of the numerous protection circuits has been activated.

The **[INPUT FACILITIES]** are carried out as balanced XLR-type connectors while the Direct-Outs – on which the carried-through signals are present – come as XLRM-type connectors. Using the Input Routing-switches lets you determine if the STANDARD PRECISION SERIES amplifiers are operated in DUAL (stereo) or PARALLEL (monaural) mode. Additionally, the STANDARD PRECISION Series power amplifiers provide the opportunity for “mono-bridged” operation.

The **[POWER OUTPUTS]** CHANNEL A, CHANNEL B and BRIDGED OUT are carried out as Speakon connectors. A ground-lift switch that separates the enclosure from the appliance's ground potential and therefore helps to eliminate ground noise loops is located on the rear panel.

In normal operation all STANDARD PRECISION SERIES power amplifiers can be used to drive loads down to 2 ohms; in bridged mode the minimal load is 4 ohms. All amps are equipped with extremely silent running fans that provide proper front-to-rear cooling, guaranteeing the trouble-free operation even in smaller rack space.



SPECIFICATIONS

| | S900 | | | S1200 | | |
|--|--|-------|------|---------|-------|------|
| Load Impedance | 8Ω | 4Ω | 2Ω | 8Ω | 4Ω | 2Ω |
| Maximum Midband Output Power, 1 kHz, THD=1% | 280W | 450W | 650W | 380W | 600W | 850W |
| Rated Output Power, 20 Hz ... 20 kHz, THD<0.2% | 230W | 350W | 450W | 300W | 500W | 650W |
| Max. Single Channel Output Power Dynamic-Headroom, IHF-A | 340W | 640W | 720W | 460W | 880W | 950W |
| Maximum Bridged Output Power 1 kHz, THD=1% | 900W | 1300W | - | 1200W | 1700W | - |
| Maximum RMS Voltage Swing 1 kHz, THD=1% | 56 V | | | 64 V | | |
| Voltage Gain at 1 kHz | 34 dB | | | 35 dB | | |
| Slew Rate | 25 V/μs | | | 30 V/μs | | |
| Power Consumption at 1/8 maximum output power @ 4 Ω | 550 W | | | 750 W | | |
| Input Sensitivity at rated output power @ 4 Ω, 1 kHz | 0 dBu (775mV) | | | | | |
| THD at rated output power MBW=80kHz, 1 kHz | < 0.05% | | | | | |
| IMD-SMPTE, 60 Hz, 7 kHz | < 0.08% | | | | | |
| DIM 30 3.15 kHz, 15 kHz | < 0.03% | | | | | |
| Crosstalk ref. 1kHz, at rated output power | > -80 dB | | | | | |
| Frequency Response -1dB, ref. 1 kHz | 13Hz ... 45kHz | | | | | |
| Power Bandwidth THD=1%, ref. 1 kHz, half power @ 4 Ω | 10Hz ... 50kHz | | | | | |
| Input Impedances 20Hz ... 20kHz, balanced | 20kΩ | | | | | |
| Damping Factor at 100 Hz / 1 kHz | >300 / >200 | | | | | |
| Signal to Noise Ratio A-weighted | 103dB | | | | | |
| Power Requirements | 230V, 50Hz ... 60Hz | | | | | |
| Safety Class | I | | | | | |
| Protection | Audio limiters, high temperature, DC, HF, Back-EMF, peak current limiters, inrush current limiters, turn-on delay, front-to-rear, 3-stage fans | | | | | |
| Dimensions (WxHxD), mm | 483 x 132.5 x 385.5 | | | | | |
| Weight | 15kg | | | 16kg | | |

Amplifier at rated conditions, both channels driven with 8Ω loads, unless otherwise specified.

