



THE GOLDMUND TELOS 600 MONO POWER AMPLIFIER

Developed from the famous JOB4 circuit of the Goldmund Millennium Amplifier, the JOB5 included in the Telos 600 is a step ahead again in amplifying technology.

With a higher power capability on low impedance loads, an even higher speed and a unique stability under any load, the JOB5 is the best amplifier circuit ever developed by Goldmund.

In addition, a revolutionary protection circuit, especially developed for the Telos allows a level of protection never achieved before, without any influence on the output signal.



The Technology.

- * Very high Power before clipping : 600W/ch on 8 Ohms. This transient power is the best guarantee for hyper-realistic dynamic reproduction.
- * Ultra-high speed JOB5 circuitry : DC to 3MHz bandwidth at full power before protection.
- * Unique circuit time accuracy : better than 100ps. A unique figure in the industry. Time distortion remains the most detrimental type of distortion introduced by analogue electronics, because it represents a form of signal degradation not existing in real life. This figure is rarely published by high-end Audio manufacturers due to the poor results achieved by most today's design.
- * Unbalanced and Balanced analogue input available. Allows the use of a balanced preamplifier.
- * Digital SPDIF input and output to connect to a digital output preamplifier. The built-in D/A converter uses the newest Alize 5 circuitry, providing an even smoother conversion and an extreme rejection of any time distortion.
- * Digital and analogue inputs sensitivity adjustable by a 7 steps attenuator accessible on the back panel.
- * Mechanical Grounding construction for proper evacuation of any vibration-generated spurious signal inside the amplifier when played at high levels.
- * Improved "Thermal Grounding" construction : The power output new type Mosfets are assembled on an even larger gold-plated copper heat-transmitter to achieve an ultra-fast heat transfer and so limit temperature-related dynamic losses. The isolators used are in specially-treated Kapton, the thinnest and best isolators providing the highest thermal transfer rate.
- * Ultra-fast power supply design : 10 built-in high-speed transformers, separate ultra-fast rectifiers for each of the 2 supplies and multiple low capacitor values are used in the design in order to provide the fastest possible signal amplification without power-supply-induced contamination.
- * New ultra-fast protection circuit disconnecting power supply on any output abnormal level. Measurement made by hall-effect captor without any effect on the signal.
- * In addition to the 2 x 5-way binding post speaker outputs, the Telos 600 provides 2 Direct Goldmund Speaker Cable connection. The Direct Goldmund Speaker Connection provides the best possible link with the Goldmund Speaker Cable, avoiding its amplifier adapter. The connectors used (1.5GHz bandwidth and 4.5kW power capability) provide a contact quality and a perfect impedance matching that no banana or lug connection, even of highest quality, could offer. When coupled with the Epilogue Goldmund speaker system, no speaker adapter is used either, again increasing speed and time-accuracy of the high-energy transfer.
- * Signal Sensing auto power on with adjustable sequencer and soft start to avoid power surges in multi-amp systems. Ultra-safe operation controlled by processor for glitch avoidance.

SPECIFICATIONS

Power

Nominal continuous power :
350 W RMS (2 - 8 Ohms).
175 W RMS (1 - 16 Ohms).
Maximum instantaneous power : 600 W RMS (8 Ohms).
Maximum voltage swing : 85 V peak.
Maximum current swing : 35 A peak.

Frequency Response

These figures are valid for the amplifier circuit alone,
loaded by 8 Ohms and working at any level between 0
and nominal power.

+/- 0.1 dB, 0 - 300 kHz, +/- 1 dB, 0 - 1000 kHz.
+/- 3 dB, 0 - 3 MHz.

Input Sensitivity

Nominal level : 1.45 V RMS.(Adjustable 0->-10dB).
Voltage Nominal Gain : 28.2 (29dB).
Input impedance : 10 kOhms.

Group Delay

Propagation delay < 100 ns stable with frequency from
DC to 200 kHz.

Distortion

Figures valid for all levels from 0 to 40 V / 8 Ohms
:Dynamic : THD < 0.01 % (- 80 dB) unweighted.
Static : THD < 0.01 % (- 80 dB) unweighted.

Circuit Speed

Slew rate : > 400 V/us.
Rise time : < 300 ns.

Noise

Signal-to noise ratio : > 115 dB.
Weighted ASA A : > 130 dBA.

Operating Temperature

Room temperature : -30 to +40 degrees Celsius
(-22 to +104 degrees Fahrenheit).
Internal temperature : +45 to +65 degrees Celsius
(+113 to +149 degrees Fahrenheit).

Power Supply

Nominal line voltage : 117, 234 V (switchable).
Input voltage range : +/- 10 %.
Maximum power consumption : 2400 W.
Power used in standby : 80 W.
10 toroidal transformers, 6 separated power supplies.

Grounding

Semi-floating chassis connected to mains earth.

Safety Features

AC voltage fuse : 16 A slow-blow.

Front Panel Controls

2 Power keys.
Standby and Power leds.
Over-Temperature led display.
HF and DC protection led display.
Overload led display.

Rear Panel Connectors And Controls

Power cord: universal socket 3 lugs.
Main fuse (16A slow-blow).
Output speaker 2 X 5 way binding post in parallel.
Output speaker 2 Coaxial Connectors in parallel.
Input connector RCA. for analogue unbalanced input.
Input connector XLR for balanced input.
Input/Output connector RCAs for digital input.
Digital Channel input switch.
Digital / Analogue input switch.
Input attenuator : 7 x 3dB steps.

Size And Weight

33 cm (13") W x 47 cm (18.5") D x 27 cm (10.5") H.
Weight : 65 kg net.

Warranty

3 years parts and labor.

«Ich lerne viel von dir, Goldmund. Ich beginne zu verstehen was Kunst ist.»

NARZISS UND GOLDMUND Hermann Hesse



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*Specifications subject to change without prior notice
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