TOUR GRADE SERIES

Professional Concert Sound Power Amplifiers

- **Up to 2 x 3500W Maximum Continuous Output**
- **High Efficiency and Sonic Excellence through Grounded-Bridge Class-H Design**
- **Microprocessor Controlled**
  - Compound Thermal Protection
  - Auto Mains Input Voltage Select
  - Mains Circuit Breaker Supervision
- **Front LCD-Panel for Operation Mode Set-up and Monitoring**
- **Slot for Optional IRIS-Net™ Module**
  - Complete PC Control (CAN, Ethernet)
  - State-of-the-art Real Time DSP (RCM26/28)
  - Unique System Diagnostics and Supervision
  - Compatible with all other IRIS-Net Compatible Hardware
- **Complete Protection Package**
- **Only 14.5 kg (32 lbs) for TG-7**
- **Designed and Manufactured in Germany**

Tour Grade amplifiers are designed for today's most demanding audio applications. They offer a unique combination of high output power, sonic excellence, high efficiency, as well as state-of-the-art, optional signal processing and system supervision via IRIS-Net software, in a compact lightweight format.

Tour Grade amplifiers have a microprocessor controlled operation management system that provides useful features such as compound thermal management (preventing amps from switching off in excessive thermal environment), automatic mains voltage detection and a circuit breaker control that allows the TG-7 to operate on a 30A (120V) or 16A (230V) circuit breaker with normal music signal.

Tour Grade amplifiers use a grounded bridge 3-step class-H topology to ensure the highest acoustic performance and reliability. The TG Series also offers the power and transient response to drive subwoofers along with the low distortion for critical HF signals. The high capacity switch-mode power supply provides the headroom needed to ensure high dynamic outputs and reliable operation on extreme low loads.

Optional IRIS-Net™ (Intelligent Remote & Integrated Supervision-Network™) Modules available for the Tour Grade amplifiers open up a whole world of state-of-the-art DSP, remote control, networking and unique system supervision – down to an individual loudspeaker component. IRIS-Net™ software is an expandable, open architecture application that operates under Windows™ and supports Ethernet, CobraNet™, CAN-Bus, USB, and RS-232 interfaces.

There will be several modules available: RCM-26 (DSP, AES/EBU input, GPIO, CANBus), RCM-28 (DSP, GPIO, COBRA-Net™), RCM-20 (no DSP, CAN-Bus) to allow any combination of central control and supervision with central or decentralized signal processing. Connection to a PC running IRIS-Net software can be achieved using a UCC-1 USB-CAN interface and/or a N8000 digital matrix.

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RCM-26 DSP Module

- 2-in-2 Speaker Controller with IIR and Linear Phase FIR Filters
- 96 kHz Sample Rate,116 dB Dynamic Range
- 24 Bit Linear AD/DA, AES/EBU In/Out
- 2 GPIO's, RS232 Interface, CAN-Bus
- 300 MIPS Processing Power for Real Time DSP Editing and Zero-Latency FIR Filers
- Unique System Supervision and Diagnostiocs (Load Monitoring and Additional impedance Measurements - System Check)
- Total Control Through IRIS-Net Software
- Compatible with all IRIS-Net Capable Devices: RCM24 (DSP controlled Precision Series Amplfiers) NetMax® N8000

Specifications		TG-5	TG-7
Max. Midband Output Power THD=1 KHz, 1 kHz, Dual Channel	2	1900 W	3500 W
	4	1450 W	2500 W
	8	850 W	1500 W
Max.Rated Output Power THD , 0,1%, 20 Hz - 20 kHz	2	--	--
	4	1200 W	2100 W
	8	600 W	1050 W
Max.Single Channel Output Power Dynamic Headroom, IHF-A	2		4500 W
	4		3200 W
	8		1800 W
Max.Bridged Ouput Power THD = 1%, 1 kHz	2		-
	4		7000 W
	8		5000 W
Maximum Voltage Swing THD1%, 1 kHz			125V
Power Bandwidth THD = 1%, ref. 1 kHz, 1/2 power @4		10 Hz - 50 kHz	
Voltage Gain ref. 1 kHz		39 / 33 / 32 dB (switchable)	41 / 35 / 32 dB (switchable)
Input Sensitivity (rated power @8)		0 / +6 / +7 dBu (switchable)	0 / +6 / +9 dBu (switchable)
THD at rated output power		<0.05%	
IMD-SMPTE (60 Hz, 7 kHz)		<0.05%	
DIM30 (3,15 kHz, 15 kHz)		< 0.02%	
Max. Input Level		+22 dBu (9.75Vrms)	
Crosstalk (1 kHz, rated output power)		< -80 dB	
Frequency Response (ref. 1 kHz)		10 Hz - 30 kHz (± 1 dB)	
Input Impedance		20 k	
Damping Factor (1 kHz)		> 400	
Slew Rate		30 V/ls	35 V/ls
S/N Ratio (A-weighted, 32 dB gain)		109 dB	111 dB
Output Noise, A-weighted		< -70 dBu	
Output Stage Topology		Class-H Grounded Bridge	
Power Requirements		100 - 240V, 50/60 Hz or 100V, 50/60 Hz	
Power Consumption 1/8 max. output @ 4		1000 W	1450 W
Protection		Audio Limiters, High Temperature, DC, HF, Short Circuit, Back-EMF, Peak Current Limietrs, Inrush Current Limiters, Turn-On Delay, Mains Circuit Breaker Protection, Mains Overvoltage Protection	
Cooling		Front-to-rear, 5-stage fans	
Ambient Temperature Limits		+5°C - +40°C (40°F - 105°F)	
Dimensions (W x H x D)		483 x 88.1 x 512 mm (19" x 3.46" x 20.15")	
Net Weight		14.2 kg (31.4 lbs)	14.5 (32 lbs)

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