

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-

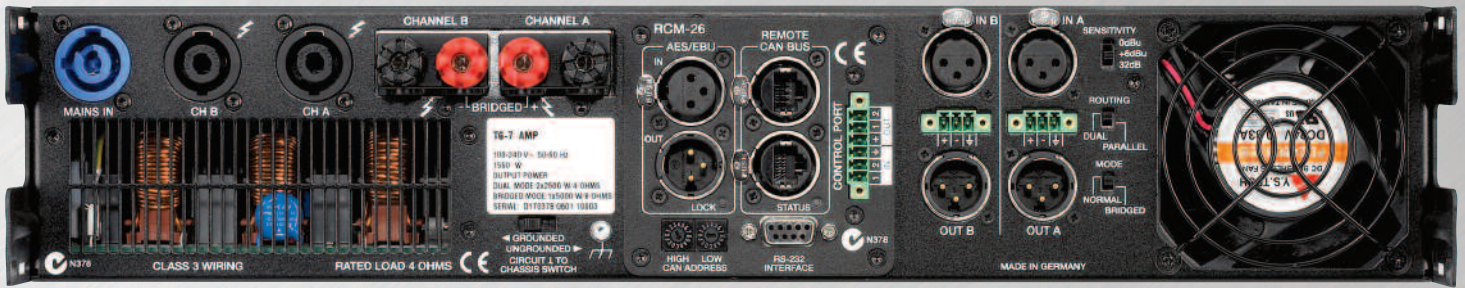
mode power supply provides the headroom needed to ensure high dynamic outputs and reliable operation on extreme low loads.

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 Filters
- Unique System Supervision and Diagnostics (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 Amplifiers) NetMax® N8000

Specifications	TG-5	TG-7	
Max. Midband Output Power THD=1 KHz, 1 kHz, Dual Channel	2 4 8	1900 W 1450 W 850 W	3500 W 2500 W 1500 W
Max. Rated Output Power THD , 0,1%, 20 Hz - 20 kHz	2 4 8	-- 1200 W 600 W	-- 2100 W 1050 W
Max. Single Channel Output Power Dynamic Headroom, IHF-A	2 4 8		4500 W 3200 W 1800 W
Max. Bridged Output Power THD = 1%, 1 kHz	2 4 8		- 7000 W 5000 W
Maximum Voltage Swing THD 1%, 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 Limiters, 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)

Americas-Headquarter Americas
Telex Communications Inc.
 12000 Portland Ave South,
 Burnsville, MN 55337, USA
 USA- Ph: 1-800-392-3497
 Fax: 1-800-955-6831
 Canada- Ph: 1-866-505-5551
 Fax: 1-866-336-8467
 Latin America- Ph: 1-952-887-5532
 Fax: 1-952-736-4212

Europe, Africa & Middle-East
Headquarter EAME
EVI Audio GmbH
 Hirschberger Ring 45, D-94315,
 Straubing, Germany
 Phone: +49 9421 706-0,
 Fax: +49 9421 706-265

France: EVI Audio France S.A.,
 Parc de Courcerin,
 Allée Lech Walesa,
 F 77185 Lognes, France
 Phone: +33 1-6480-0090
 Fax: +33 1-6006-5103

UK: Shuttlesound,
 4 The Willows Centre,
 Willow Lane, Mitcham,
 Surrey CR4 4NX, UK
 Phone: +44 208 646 7114
 Fax: +44 208 254 5666

Asia & Pacific Rim-Headquarter Asia
Singapore: Telex Pte. Ltd.
 3015A Ubi Road 1,
 05-10 Kampong Ubi Industrial Estate,
 Singapore 408705
 Phone: +65 6746-8760,
 Fax: +65 6746-1206

Japan: EVI Audio Japan Ltd.
 5-3-8 Funabashi, Setagaya-Ku,
 Tokyo, Japan 156-0055
 Phone: +81 3-5316-5020,
 Fax: +81 3-5316-5031

Hong Kong: Telex EVI Audio (HK) Ltd.
 Unit 51/F, Topsail Plaza
 11 On Shum Street
 Shek Mun, Shatin HK
 Phone: +852 2351-3628,
 Fax: +852 2351-3329

China: Telex EVI Audio (Shanghai) Ltd.
 Room 2210-2215,
 Tower B, Far East International Plaza,
 No. 317, Xianxia Road,
 Shanghai, China, PC: 200051
 Phone: +86 21-6235-1677
 Fax: +86 21-6235-1676

