

ITGX

4-CHANNEL POWER AMPLIFIERS



LIVE SOUND APPLICATIONS



DYNACORD



the new flagship

FOR LIVE SOUND AMPLIFICATION

TGX 4-channel live sound amplifiers from Dynacord are one of the most powerful on the market and represent the pinnacle of pro audio electronics engineering. Along with unprecedented power density, they offer Dynacord's signature audio quality, advanced reliability and power efficiency. Engineered and manufactured in Germany, TGX amplifiers are built as the ultimate amplification solution for large-scale live performance sound applications. They embody several proprietary amplifier technologies developed by Dynacord engineering, one of the most experienced R&D teams in the audio industry.



release your loudspeaker's potential

WITH UNPARALLELED
PERFORMANCE AND
UNRIVALLED QUALITY

Integrated networking with proven Dante Audio
and OCA / AES 70 remote control

Tour-grade 96 kHz DSP includes multi-band
PEQs, crossovers, limiters and delay per
channel

FIR-Drive and speaker preset library on board
yield a level of unparalleled audio quality

Extremely high power density

Very robust power supply for maximum
performance

Reliable voltage handling

Uncompromising stability down to 2 ohms

Ultra-low latency due to the latest A/D and
D/A converters and DSP technology

Sophisticated protection algorithms

State-of-the-art amplifier technology for
highest demands engineered and
manufactured in Germany

models

TGX20



20.000 WATTS 4 x 5.000 W @ 4 ohms
all channels driven

TGX10



10.000 WATTS 4 x 2.500 W @ 4 ohms
all channels driven

superior networked audio

Dynacord TGX power amplifiers are equipped with Dante™ networking capabilities as well as AES and analog inputs. Each amplifier features the industry's most advanced 96 kHz DSP with FIR Drive technology. The combination of each amplifier's market leading ultra-low latency with up to 118dB signal-to-noise ratio, offers an unrivalled level of audio quality.

unparalleled power

Featuring two models with 4 x 2,500 watts and 4 x 5,000 watts, TGX power amplifiers offer an unparalleled 4-ohm power density of 10 kW and even 20 kW from a single amplifier with all channels driven simultaneously.

flawless reliability

TGX power amplifiers incorporate a number of unique patent-pending technologies designed to deliver a reliable and stable system performance. The show will go on – without clipping or shutdown. TGX's advanced protection package monitors more than 200 parameters to assure that even under the most challenging operating conditions the amplifier continues to perform at the highest possible level. In addition, Dynacord's digitally regulated Power Factor Correction (PFC) provides peace of mind; even with fluctuating mains, TGX amplifiers will remain stable and efficient. Junction Temperature Modeling (JTM) technology ensures the highest possible output power and tour-grade performance without any shutdown or loss of audio quality. Dual network ports and automatic fall-back provide an extra level of redundancy and system reliability.

smart system

RACK SOLUTION



Preconfigured System rack including three TGX20 DSP amplifiers, power distribution, input and output interfaces and network redundancy

Power distribution mountable either on front or rear *

Integrated rack sliding doors

Stackable on a single dolly

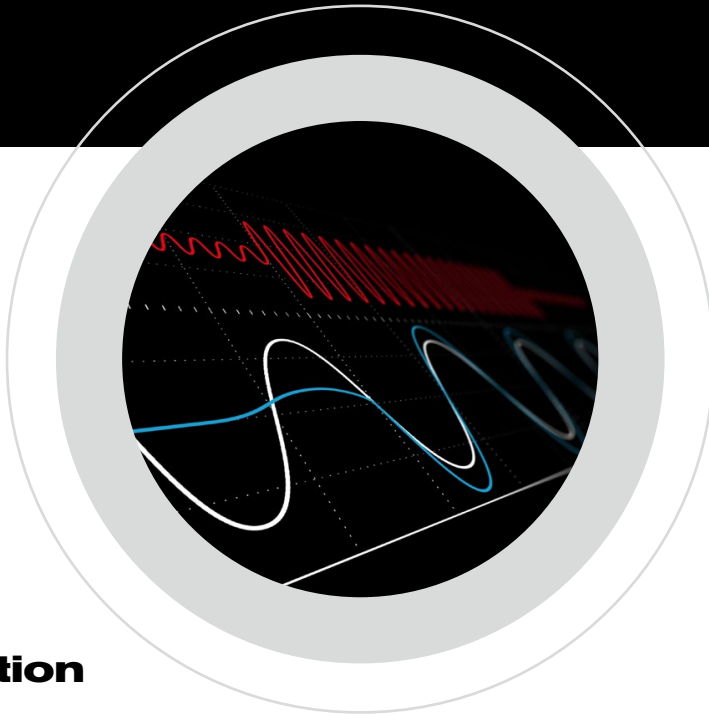
* Power distribution available for the EU and NA

THE TGX SYSTEM RACK IS A MODULAR SOLUTION
DESIGNED AND BUILT FOR TOURING PROFESSIONALS,
BY TOURING PROFESSIONALS.

The 10 rack unit TGX system rack is pre-configured with three TGX20 DSP amplifiers plus two independent network switches for glitch-free operation and offers a variety of professional features such as integrated sliding rack doors, customizable

I/O options, and a reversible mounting for the power distribution. The TGX system racks can be vertically stacked and locked together to give up to 180kW of output power in the same compact footprint as a conventional amplifier rack.

technology



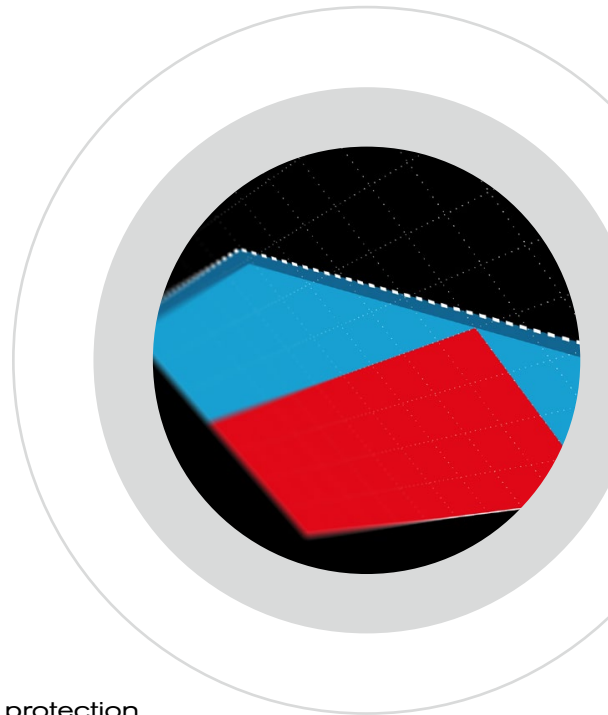
power factor correction

Maximizes output power and reduces idle power

Complete digital monitoring and control

Wide range input for maximum flexibility

Highest reliability thanks to Dynacord's protection algorithms



junction temperature modelling

Overheat component protection by constant temperature modelling

Ensures maximum output power

Provides highest operational reliability



the smooth way to drive your sound

Sound engineers aim to create the best sound quality show after show, and giving the audience an unforgettable experience time after time. However, making the vast array of diverse equipment and technologies work in sync at every venue takes skill, experience and time. But time is always limited and the show must go on. That's why we offer a new, unique software platform for faster digital sound design and management, designed with simplicity and performance in mind, providing transparency, overview and control to save time on set-up while giving total control for audio management and the perfect sound. Fully compatible with Dante Audio, this software is designed around our users and the way they work.

It also empowers the user to design, tune and operate an entire sound system from one piece of software. Developed in-house, the new cross-platform software offers intuitive and streamlined workflow guidance to save both time and effort. It's designed to support the entire workflow with plug-in options for loudspeaker prediction software like EASE Focus and real time measurement systems like Systune. Using a light and dark color scheme, the GUI adapts to increase visibility in high and low lighting conditions. Alternatively, TGX power amplifiers can also be operated via IRIS-Net software, which offers numerous options for the most complex sound system configurations.

output power / digital signal processing

Amplifier model	TGX10				TGX20			
Load Impedance	2 Ω	2.7 Ω	4 Ω	8 Ω	2 Ω	2.7 Ω	4 Ω	8 Ω
Maximum Output Power *, all channels driven	2600 W	3000 W	2500 W	1250 W	5200 W	6000 W	5000 W	2500 W
Maximum Output Voltage	150 V _{peak}				210 V _{peak}			
Maximum Output Current	53 A _{peak}				84 A _{peak}			
THD, 3dB below max., AES17, 1kHz	< 0.05 %							
IMD-SMPTE (60 Hz, 7 kHz)	< 0.05 %				< 0.15 %			
Crosstalk, ref. 1 kHz, 12 dB below max./8 Ω	< -80 dB							
Signal to Noise Ratio Amplifier, A-weighted, analog/digital input	112 dB / 115 dB				115 dB / 118 dB			
Output Noise, A-weighted, analog/digital input	< -70 dBu / < -73 dBu							
Sampling rate, OMNEO / Dante™ synchronized	48 kHz / 96 kHz							
Signal Latency, analog input, 48 / 96 kHz	0.70 ms / 0.53 ms							
Audio Input Formats	Dante / AES3 / analog							
Weight	15,0 kg (33.0 lb)				18,3 kg (40.4 lb)			
Shipping Weight	17,2 kg (37.8 lb)				20.5.kg (45.2 lb)			



HEADQUARTER ADDRESSES

NORTH AMERICA GLOBAL HQ

Bosch Security Systems, Inc.
Burnsville, MN
+1-952-884-4051

EUROPE REGIONAL HQ

Bosch Sicherheitssysteme
GmbH (EVI Audio GmbH)
Straubing, Germany
+49 9421 706-0

LATIN AMERICA REGIONAL HQ

Robert Bosch, Limitada
Security Systems
Campinas, SP, Brasil
+55 19 2103-4282

ASIA PACIFIC REGIONAL HQ

Robert Bosch (SEA) Pte Ltd
Singapore
+65 6571 2808

CHINA REGIONAL HQ

Bosch (Shanghai)
Security Systems Ltd.
IBP, Changning District
Shanghai, P.R. China
400-8310-669