TXn Series

Power Amplifiers

TX6n

TX5n

TX4n

MY16 *EEEngine* 2U

TX6n Rear Panel

High power touring amplifiers with internal DSP and advanced networking capabilities.

- High power for tour applications: TX6n = 3000W (4 ohms/per channel), TX5n = 2500W, TX4n = 2200W (2 ohms/ per channel).
- Stable 2-ohm drive capability for line array speaker systems.
- Yamaha DSP technology provides extensive monitoring, control, input/speaker processing, and protection functions built in.
- MY card slot makes it easy to match the amplifier's I/O configuration to the system — analog or digital.
- The analog and digital inputs can be used independently, or signals can be applied to both and mixed or switched automatically for redundancy.
- Advanced remote monitoring, control, and system management capabilities via Yamaha's dedicated software.
- Legendary Yamaha quality control for consistently superior sonic quality and reliability.
- Dual mono configuration with independent power supplies for each channel.
- Original Yamaha EEEngine amp drive technology achieves efficiency that matches class D amplifiers.
- Exhaustive vibration-reduction measures have resulted in unprecedented sound quality.
- A durable exterior, large cooling fans and fan guards, easily replaceable filters, and other reliability features deliver dependability even under demanding tour conditions.
- A variety of I/O terminals, removable handles, and other features for maximum installation and handling versatility.

Amplifier Control & Settings

Power on/off
Muting
Input Type: Analog/AES/EBU/EtherSound* (with optional card)/CobraNet* (with optional card)/ MY slot input with analog backup/MY slot input with analog override
Output Modes: Stereo/Bridge/Parallel
Input mixer
Analog input sensitivity and gain
Attenuator link and limits
Limiter Settings: Clip limiter/Power limiter/Thermal limiter (heatsink) /Limiter tie

Speaker Processing

Low-pass and high-pass filters
Low and high shelving filters
Parametric EQ
All-pass filter
Delay
Limiter
Polarity inverter
Oscillator

Security

Lockout level settings
Password

Other

Contrast
Display
Firmware version and other info
Internal clock and error report

GENERAL SPECIFICATIONS

Model			TX6n	TX5n	TX4n	TX6n	TX5n	TX4n
			120V(US)			230V(EU)*1		
Output power	2Ω per channel		2750W	2500W	2200W	2750W	2500W	2200W
	4Ω per channel		3000W	2200W	1900W	3000W	2300W	2000W
	8Ω per channel		1800W	1300W	1100W	1800W	1300W	1100W
1kHz	4Ω / Bridge		5500W	5000W	4400W	5500W	5000W	4400W
THD+N=1%	8Ω / Bridge		6000W	4400W	3800W	6000W	4600W	4000W
1kHz	2Ω per channel		4100W	3480W	2990W	4120W	3600W	3050W
20ms Burst	4Ω / Bridge		8200W	6960W	5980W	8240W	7200W	6100W
S/N ratio	20Hz - 20kHz (DIN AUDIO)		108dB	107dB	106dB	108dB	107dB	106dB
Standby Power Consumption			20W	20W	20W	20W	20W	20W
Idle Power Consumption			75W	75W	75W	75W	75W	75W
1/8 Power Consumption*2 (2Ω / Pink noise)			1800W	1600W	1500W	1800W	1600W	1500W
Intermodulation Distortion 60Hz: 7kHz, 4:1, Half Power*3			0.25%					
THD+N 10Hz - 20kHz, half power, RL=4Ω 8Ω			0.2%					
Frequency response 8Ω, Po=1W, 10Hz - 20kHz			MAX +0.5dB, TYP 0dB, MIN -0.5dB f=10Hz-20Hz					
Channel Separation Att.max, half power , RL=8Ω, 1kHz, input 600Ω shunt			65dB					
Residual noise Att. min, 20Hz - 20kHz, DIN AUDIO			-65dBu					
Damping factor RL=8Ω, 1kHz			800					
Voltage gain			43.8dB ~ 19.8dB, 0.1dB step					
Maximum Input Voltage			+24dBu*4					
Input Impedance			20kΩ (balanced) 10kΩ (unbalanced)					
Controls			Front Panel POWER switch (push on / push off), Rotary encoder x 2, Function button x 4, HOME button x 1, EXIT button x 1, ENTER button x 1, Mute button x 2					
Connectors	Analog input	In	XLR-3-31 type x 2					
		Thru	XLR-3-32 type x 2					
	AES/EBU input/output	In	XLR-3-31 type x 1 (2 channels, 24-bit 96kHz ~ 44.1kHz)					
		Thru	XLR-3-32 type x 1 (2 channels)					
		Out	XLR-3-32 type x 1 (2 channels, 24-bit 96kHz ~ 44.1kHz)					
	Speaker output		Neutrik® SPEAKON® NL4 x 2, 5-way binding post x 2 pairs					
	Ethernet		RJ45 x 1					
	Fault output		Euroblock connector (3P) x 1					
Indicators			IDENTIFY, NETWORK, PROTECTION, BRIDGE, PARALLEL, POWER, STANDBY, MUTE, ALERT, CLIP, SIGNAL					
Load protection			POWER switch on / off mute, DC-fault: Amplifier shuts down automatically.					
			clip limiting: THD ≥ 0.5%					
Amplifier protection			Thermal: Mute the output (heatsink temp ≥ 90°C) (return automatically.).					
			VI limiter (RL ≤ 1Ω) : Limit the output					
Power supply protection			Thermal: Amplifier shuts down automatically. (heatsink temp ≥ 100°C)					
Cooling			Variable speed fan: x 2					
Power requirements			U : 120V (60Hz) 30A twist lock connector					
			H : 220V - 230V (50Hz / 60Hz)					
Dimensions (W x H x D)			480 X 88 X 461mm (18.9" x 3.46" x 18.1")					
Weight			16.0kg (35lbs)					
Included Accessories			Handle x 2 (with flat-head screw x 4), Euroblock connector (3P) x 1, Owner's Manual					

*1 Output power depends on the power supply voltage. These figures are based on 230V.
  If the power supply voltage is 220V, output power can be 8% less than the power shown in the spreadsheet.
  Output power can be 7% more in case of 240V.

*2 1/8 power = 9dB below rated power
*3 Half power = 3dB below rated power
*4 0dBu = 0.775Vrms

DIMENSIONS

unit : mm