

TXn Series

Power Amplifiers



TX6n

TX5n

TX4n

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
Limiters 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		
	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		
1kHz THD+N=1%	8Ω per channel	1800W	1300W	1100W	1800W	1300W	1100W		
	4Ω / Bridge	5500W	5000W	4400W	5500W	5000W	4400W		
1kHz 20ms Burst	8Ω / Bridge	6000W	4400W	3800W	6000W	4600W	4000W		
	2Ω per channel	4100W	3480W	2990W	4120W	3600W	3050W		
S/N ratio	20Hz - 20kHz (DIN AUDIO)	108dB	107dB	106dB	108dB	107dB	106dB		
	Att. max, half power , RL=8Ω, 1kHz, input 600Ω shunt	65dB							
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-20kHz							
Channel Separation	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)						
	Speaker output	Out	XLR-3-32 type x 1 (2 channels, 24-bit 96kHz - 44.1kHz)						
			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

