

# Tn Series

## Power Amplifiers



T5n

T4n

T3n



T5n Rear Panel

### *Defining the standard for a new generation of large-scale live sound systems.*

- High power for tour applications: T5n = 2500W, T4n = 2200W, T3n = 1900W (stereo, into 2 ohms).
- Exhaustive vibration-reduction measures have resulted in unprecedented sound quality.
- Extraordinary midrange and high-end detail with solid, commanding bass.
- Stable 2-ohm drive capability is ideal for line array speaker systems.
- Reliability achieved through verification of circuits and internal components with carefully selected and test parts.
- A durable exterior, large cooling fans and fan guards, replaceable filters, and other reliability features deliver dependability even under demanding tour conditions.
- Original Yamaha EEEngine amp drive technology achieves drastic reduction in power consumption compared to conventional amplifiers.
- Remote amplifier control and monitoring via the ACD1 or the ACU-16C amplifier control devices.
- Dual mono amplifier configuration with independent power supplies for each channel.
- A variety of input terminals, removable handles, and other features for maximum installation and handling versatility.
- Reliable protection circuit for sure operation.

*Tn series amps meet Underwriters Laboratories Inc.'s safety requirements UL60065, 7th ed and CSA C22.2 No. 60065-03 at 2 ohms.*

*Tn series amps are also certified for safety by Intertek ETL SEMKO to comply with standard EN60065:2002 at 2 ohms.*

## GENERAL SPECIFICATIONS

Model	T5n			T4n			T3n			T5n			T4n			T3n										
	120V									240V									230V							
Output Power	1kHz, THD+N = 1%	2Ω	2500W x 2	2200W x 2	1900W x 2	2500W x 2	2200W x 2	1900W x 2	2500W x 2	2200W x 2	1900W x 2	2500W x 2	2200W x 2	1900W x 2	2500W x 2	2200W x 2	1900W x 2									
		4Ω	2200W x 2	1950W x 2	1400W x 2	2500W x 2	2150W x 2	1500W x 2	2350W x 2	2050W x 2	1400W x 2															
		8Ω	1350W x 2	1150W x 2	790W x 2	1400W x 2	1250W x 2	850W x 2	1350W x 2	1150W x 2	750W x 2															
		4Ω bridge	5000W	4400W	3800W	5000W	4400W	3800W	5000W	4400W	3800W															
		8Ω bridge	4400W	3900W	2800W	5000W	4300W	3000W	4700W	4100W	2800W															
	1kHz, 20ms burst	2Ω	3400W x 2	2900W x 2	2200W x 2	3600W x 2	3300W x 2	2350W x 2	3400W x 2	3100W x 2	2150W x 2															
		4Ω bridge	6800W	5800W	4400W	7200W	6600W	4700W	6800W	6200W	4300W															
Constant voltage line	100V Line	1250W x 2/8Ω	-	-	1250W x 2/8Ω	-	-	1250W x 2/8Ω	-	-																
	70V Line	-	-	625W x 2/8Ω	-	-	625W x 2/8Ω	-	-	625W x 2/8Ω																
Voltage Gain	RL=8Ω	26dB/32dB						26dB/32dB																		
Input Sensitivity	RL=8Ω	26dB position	+16.6dBu	+15.9dBu	+14.2dBu	+16.7dBu	+16.2dBu	+14.5dBu	+16.6dBu	+15.9dBu	+14.0dBu															
		32dB position	+10.6dBu	+9.9dBu	+8.2dBu	+10.7dBu	+10.2dBu	+8.5dBu	+10.6dBu	+9.9dBu	+8.0dBu															
SN Ratio	20Hz-20kHz, DIN AUDIO	107dB	106dB	105dB	107dB	106dB	105dB	107dB	106dB	105dB																
Power Consumption	1/8 power (2Ω pink noise)	1600W	1400W	1200W	1600W	1400W	1200W	1600W	1400W	1200W																
	Idle	70W	70W	70W	70W	70W	70W	70W	70W	70W																
	Standby	5W	5W	5W	5W	5W	5W	5W	5W	5W																
THD+N	20Hz-20kHz, 1/2 power, RL=4Ω	Less than 0.1%																								
Frequency Response	RL=8Ω, Po=1W, 20Hz - 20kHz	+0dB, -0.5dB																								
Crosstalk	1kHz, half power, 8Ω Att. max, input 600Ω shunt	Less than -67dB																								
Damping Factor	RL=8Ω, 1kHz	More than 800																								
Maximum Input Level		+24dBu																								
Input Impedance		20kΩ (balanced), 10kΩ (unbalanced)																								
Controls	Front panel	POWER switch x 1 (push on/push off), Attenuator x 2 (31 position)																								
	Rear panel	MODE switch x 1 (STEREO/BRIDGE/PARALLEL), Gain switch x 1 (32dB/26dB), AMP ID switch x 1 (6P DIP)																								
Connectors	Input	XLR-3-31 type x 2, Euroblock connector x 2 pairs (balanced)																								
	Output	Neutrik® SPEAKON® NL4 x 2, 5-way binding post x 2 pairs																								
	Data Port	RJ45 x 2																								
Indicators		POWER/STANDBY x 1 (Green/Orange), PROTECTION x 1 (Red), TEMP x 1 (Red) heatsink temp ≥ 85°C, REMOTE x 1 (Green), SIGNAL x 2 (Green), MUTE x 2 (Red), CLIP x 2 (Red)																								
Load Protection		POWER switch on/off mute, DC-fault: Amplifier shuts down automatically, Clip Limiting: THD ≥ 0.5%																								
Amplifier Protection		Thermal: Output Mute (heatsink temp ≥ 90°C) (Restored automatically), VI limiter (RL ≤ 1Ω) : Limit the output.																								
Power Supply Protection		Thermal: Amplifier shuts down automatically (heatsink temp ≥ 100°C)																								
Cooling Fan		Variable-speed fan x 2																								
Power Requirements		120V, 220V-240V; 50Hz/60Hz (120V models use 30A twist lock connector)																								
Dimensions (W x H x D)		480 x 88 x 447mm (18-7/8" x 3-7/16" x 17-9/16")																								
Weight		14kg (30.9lbs)																								
Included Accessories		Handle x 2, Flat-head screw x 4, Euroblock connector x 2 (3P), Owner's Manual																								

\* Half power = 1/2 power output level

## DIMENSIONS

unit : mm

