

# 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 thorough 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.*

# Tn Series

## GENERAL SPECIFICATIONS

Model		T5n	T4n	T3n	T5n	T4n	T3n	
		120V / 240V			230V			
Output Power	2Ω per channel	2500W	2200W	1900W	2500W	2200W	1900W	
	4Ω per channel	2200W(120V)/2500W(240V)	1950W(120V)/2150W(240V)	1400W(120V)/1500W(240V)	2300W	2050W	1400W	
	8Ω per channel	1350W(120V)/1400W(240V)	1150W(120V)/1250W(240V)	790W(120V)/850W(240V)	1350W	1150W	800W	
	4Ω / BRIDGE	5000W	4400W	3800W	5000W	4400W	3800W	
	8Ω / BRIDGE	4400W(120V)/5000W(240V)	3900W(120V)/4300W(240V)	2800W(120V)/3000W(240V)	4600W	4100W	2800W	
	2Ω per channel	3400W(120V)/3600W(240V)	2900W(120V)/3300W(240V)	2200W(120V)/2350W(240V)	3400W	3100W	2150W	
	4Ω per channel	2200W	1950W	1400W	2300W	2050W	1400W	
	8Ω per channel	1350W(120V)/1400W(240V)	1150W(120V)/1250W(240V)	790W(120V)/850W(240V)	1350W	1150W	800W	
1kHz THD+N=1%	4Ω / BRIDGE	6800W(120V)/7200W(240V)	5800W(120V)/6600W(240V)	4400W(120V)/4700W(240V)	6800W	6200W	4300W	
	8Ω / BRIDGE	4400W(120V)/5000W(240V)	3900W(120V)/4300W(240V)	2800W(120V)/3000W(240V)	4600W	4100W	2800W	
	100V Line	1250W/ch RL=8Ω	-	-	1250W/ch RL=8Ω	-	-	
	70V Line	-	-	625W/ch RL=8Ω	-	-	625W/ch RL=8Ω	
	Input	Att.max Switch Position	26dB 32dB	26dB 32dB	26dB 32dB	26dB 32dB	26dB 32dB	
	Sensitivity (dBu)	RL=4Ω Att.max	+15.7 +9.7	+15.1 +9.1	+13.7 +7.7	+15.9 +9.9	+15.4 +9.4	+13.7 +7.7
		20Hz-20kHz (DIN AUDIO)	107dB	106dB	105dB	107dB	106dB	105dB
	S/N Ratio	20Hz-20kHz (DIN AUDIO)	107dB	106dB	105dB	107dB	106dB	105dB
Stand-by Power Consumption		5W	5W	5W	5W	5W	5W	
Idle Power Consumption		70W	70W	70W	70W	70W	70W	
1/8 Power Consumption (2Ω/Pink noise)		1600W	1400W	1200W	1600W	1400W	1200W	
Power Bandwidth (half power THD+N=0.5%)		10Hz-40kHz						
THD+N 20Hz – 20kHz, Half Power RL=4Ω, 8Ω		MAX 0.1%						
Intermodulation Distortion		MAX 0.1%						
60Hz:7kHz, 4:1, Half Power		MAX 0.1%						
Frequency Response	8Ω, Po=1W, HPF=OFF	MAX 0dB, TYP 0dB, MIN -0.5dB f=20Hz-20kHz						
Channel Separation	Half power RL=8Ω 1kHz ATT. Max input 600Ω shunt	MIN 67dB						
Damping Factor	8Ω, f=1kHz	MIN 800						
Voltage Gain	ATT. max	32dB/26dB						
Maximum Input Voltage		+24dBu						
Input Impedance		20kΩ (balanced) 10kΩ (unbalanced)						
Controls	Front panel	POWER switch (push on/push off), Attenuator (31position) x 2						
	Rear panel	MODE switch (STEREO/BRIDGE/PARALLEL) x 1, Gain switch (32dB/26dB) x 1, AMP ID switch (6PDIP) x 1						
Connectors	Input	XLR-3-31 type/ch, Euroblock connector (balance)/ch						
	Output	Neutrik SPEAKON/ch, 5way binding post x 1						
	DATA PORT	RJ45 x 2						
Indicators		POWER/STAND-BY: 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/LIMIT: x 2 (Red)						
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 ≤ 1W): Limit the output						
Power supply Protection		Thermal: Amplifier shuts down automatically. power supply shutdown(heatsink temp ≥ 100°C)						
Cooling		Dual Variable-speed fan						
Power Requirements		120V / 60Hz, 230V / 50Hz, 240V / 50Hz 120V models use 30A twist lock NEMA L5 30P connectors.						
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 (with flat-head screw x 4), Euroblock connector x 2, Owner's Manual						

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

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## DIMENSIONS

unit : mm

