

# T Series

2/4-Channel High-Performance Amplifier Platform with DSP and Dante™



- TOURING
- INSTALLATION



**ArmoníaPlus**  
System Manager

The T Series is a flexible and cost effective amplifier platform loudspeaker processor. The range consists of 2 and 4 channel models supporting channel powers from 750 W to 4000 W.

All models deliver high peak voltage allowing high SPL with single 8/16 ohm cabinets. The high voltage is also good for sharing power between the channels for applications such as bi-amped loudspeakers or subwoofers with passive tops.

The T Series offers input via Dante, AES3, and analog. The Dante™ and AES3 solutions are optimized for daisy-chained distribution of 2-channel audio, enabling routing to many amplifiers without the need for external switches, repeaters, or splitters.

This helps in simplifying the process of setting up a typical networked system.

The loudspeaker processing features set a new benchmark for cost-effective amplification for small and medium sized systems and stage monitoring applications.

The T Series can be controlled and configured in various ways:

- through ArmoníaPlus, where it can be in mixed groups with advanced EQ together with other Powersoft products

- from the front panel display for things like preset recall (also per output), gain, delay, mute. This makes it the perfect match for powering the smaller solutions that are offered by rental companies. The display also shows the available

headroom, along side with other status monitoring

- with the dedicated webapp, that runs on any device with a browser (e.g. a tablet) and access the amplifier via an external WiFi access point to control all parameters.

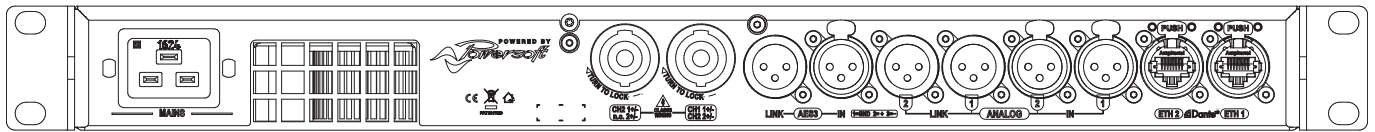
- ▶ Renowned sound clarity
- ▶ Group controllable advanced EQ with raised cosine filters
- ▶ Large preset library
- ▶ Preset compatibility with X Series
- ▶ Long FIR filters (42.6 ms)



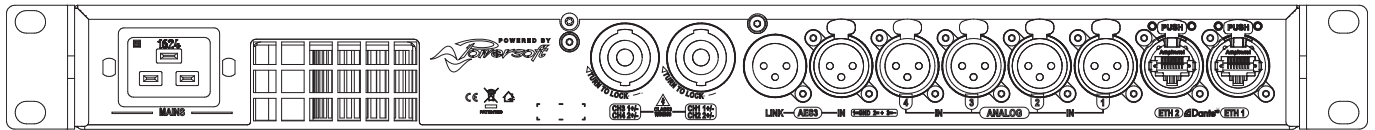
# T Series

## 2/4-Channel High-Performance Amplifier Platform with DSP and Dante™

### 2 Channel - T302, T602, T902



### 4 Channel - T304, T604, T904



## Specifications

Channel Handling		T302 - T602 - T902		T304 - T604 - T904				
Number of output channels	2 (2 Speakon NL4)	4 (2 Speakon NL4) (bridgeable per channel pair)						
Number of input channels	2 XLR (female) 2 XLR LINK (male)		4 XLR (female)					
Analogue	2 XLR (female) 2 XLR LINK (male)		4 XLR (female)					
Digital	AES3 - 1 XLR (female) LINK - 1 XLR (male)							
Audio		Gain	T302	T602	T902	T304	T604	T904
Input sensitivity @ 8 Ω	32 dB	2.57	2.57	3.10	2.57	2.57	3.10	Vrms
S/N (20Hz - 20kHz @ 8Ω, Typ.)	110	110	108	110	110	108	110	dB(A)
Max input level	24 dBu							
Frequency Response	20 Hz - 20 kHz +/-0.5 dB							
Crosstalk (1 kHz)	<-70 dB							
Input impedance	20kΩ Balanced							
CMRR	>65 dB							
THD+N (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)							
SMPTE IMD (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)							
Output impedance at 100 Hz	26 mΩ							
DSP		24 Bit Tandem™ @ 48 kHz 125 dB-A Dynamic Range - 0.005 % THD+N						
AD converters	24 Bit Tandem™ @ 48 kHz 117 dB-A Dynamic Range - 0.003 % THD+N							
DA converters	24 Bit @ 96 kHz 140 dB Dynamic Range - 0.0001 % THD+N							
Sample rate converter	32 bit floating point							
Internal precision	2.5 ms fixed latency architecture							
Latency	256 MB (RAM) plus 512 MB flash for presets							
Memory/Presets	2 s (input) + 100 ms (output) for time alignment							
Delay	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass							
Equalizer	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)							
Crossover	TruePower™, RMS voltage, RMS current, Peak limiter							
Limiters	Active DampingControl™ and LiveImpedance™ measurement							
Damping control								
Display Panel		1.8" Colour TFT, 160x128 pixels, 600 nits						
Display	8 pushbuttons with RGB backlight							
Control	USB port for external memory							
Extra								

Output Stage	T302	T602	T902	T304	T604	T904
per channel @ 8 Ω (symmetrical)*	1200 W	1300 W	1800 W	750 W	1250 W	1600 W
per channel @ 4 Ω (symmetrical)*	1500 W	2500 W	3200 W	750 W	1500 W	2000 W
per channel @ 2 Ω (symmetrical)*	1500 W	3000 W	4000 W	750 W	1500 W	1800 W
per channel @ 8 Ω (asymmetrical)**	1300 W	1400 W	1800 W	1200 W	1250 W	1800 W
per channel @ 4 Ω (asymmetrical)**	2200 W	2500 W	3600 W	1200 W	2100 W	2300 W
per channel @ 2 Ω (asymmetrical)**	1600 W	3800 W	4600 W	1200 W	1600 W	1800 W
@ 4 Ω Bridged	3000 W	6000 W	8000 W	1500 W	3000 W	3600 W
@ 8 Ω Bridged	3000 W	5000 W	6400 W	1500 W	3000 W	4000 W
Maximum unclipped output voltage	145 V <sub>peak</sub>	145 V <sub>peak</sub>	175 V <sub>peak</sub>	145 V <sub>peak</sub>	145 V <sub>peak</sub>	175 V <sub>peak</sub>
Maximum output current	50 A <sub>peak</sub>	100 A <sub>peak</sub>	110 A <sub>peak</sub>	50 A <sub>peak</sub>	50 A <sub>peak</sub>	55 A <sub>peak</sub>

\*Calculated by driving and loading symmetrically all the channels.  
\*\*Calculated by driving all channels, but with every second channel at -6dB

Power & Thermal		T302	T602	T902	T304	T604	T904
@ 120 V	Standby Power	13.5	15	15	15	15	15 W
	Idle Power	23	32	33	32	32	34 W
	1/8 Power @ 4Ω	517	824	1073	532	1054	1702 W
	Current Draw	4.6	7.6	9.6	4.7	9.5	15 A <sub>rms</sub>
	Thermal Loss	485	678	931	537	1039	1713 BTU/h
@ 230V	Standby Power	14	16	16	16	16	16 W
	Idle Power	23	32	33	32	32	34 W
	1/8 Power @ 4Ω	527	839	1068	525	1027	1676 W
	Current Draw	2.7	4.3	5.3	2.7	5.2	8.2 A <sub>rms</sub>
	Thermal Loss	517	731	913	512	944	1624 BTU/h

Power supply	Universal regulated switch mode with PFC, SRM	
Nominal voltage (±10%)	100-240 VAC @ 50-60Hz	
Operating Voltage	90-264 VAC @ 50/60 Hz	
AC Mains connector	IEC C20 inlet (20 A max) region-specific power cord provided	

Networking	
Standards compliance	auto sensing Gigabit Ethernet IEEE 802.3ab
Supported topologies	Daisy chain, Star
Remote interface	ArmoniaPlus™

Construction	T302	T602	T902	T304	T604	T904
Dimensions	484 x 405 x 44.5 mm (19 x 16 x 1.75 in)					
Weight	6.7 kg	7.5 kg	7.8 kg	7.1 kg	7.5 kg	7.8 kg

Data subject to change without notice.

