Skyco TECHNOLOGIES

AUDIO DATASHEET
DS-PA-17 · Rev A · November 2026

COMMERCIAL PA · POWER AMPLIFIER

T-1650DS

Class D power amplifier, 650 W

A 650 W single-channel Class D power amplifier for 100 V lines or 4–16 Ω, in 1U, for zones that need more power than a mixer amp.

650 W | 100 V or 4–16 Ω | Class D | 1U rack



650 W
Rated output

85%
Efficiency, up to

≥ 85 dB
SNR

1U
Rack height

Power for big zones. Efficient, cool and compact.

The T-1650DS is a single-channel Class D amplifier with a high-efficiency switching supply, up to 85% efficient, so it runs cool in a 1U rack space. Feed it from a pre-amplifier or matrix, and drive a 100 V speaker line or 4–16 Ω speakers. A fault output lets the system monitor it remotely.

Class D
Up to 85% efficient, with low heat and power loss.

100 V or 4–16 Ω
One output terminal for either.

Fault output
Remote power control and fault indication.

Runs cool
Keeps below 55 °C even in harsh conditions.

Protected
Short-circuit, overload and overheat protection.

1U rack
Balanced Phoenix input and output.

APPLICATIONS

Malls | Warehouses | Stadiums | Campuses | Clubs | Transport hubs

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Specifications. Every input, output and rating.

AMPLIFIER

Rated output	650 W
Output	100 V / 4–16 Ω
Frequency response	80 Hz – 16 kHz (+1, –3 dB)
SNR	≥ 85 dB
THD	≤ 0.1% (1 kHz, 1/3 rated power)
Overload headroom	› 11 dB

POWER AND PHYSICAL

Power supply	AC 220 V, 50 Hz
Power consumption	900 W
Cooling	Fan
Protection	Overheat, overload, short circuit
Dimensions	484 × 315 × 44 mm (1U)
Weight	4.1 kg

INPUT AND CONTROL

Input	±385 mV / 20 kΩ, balanced, Phoenix
Control	Remote power control, fault output
Indicators	Signal, peak, protection, power

WORKS WITH

Pre-amplifier	T-1S01
Four-channel	T-4240DSA
Range	T-1240DS, T-1500DS

MANUFACTURER

Brand	ITC

Specifications are typical values and may change without notice. Skyco confirms the final configuration with your quote.

Talk to our audio team.

We design the zones, size speakers and amplifiers to 100 V line practice, supply the system and support it.

1. **Design the zones**
2. **Quote**
3. **Supply**
4. **Install**
5. **Support**