

# TOTEC High Power 18 inch Subwoofer

Data sheet



YOU ART. WE SOUND.



## Overview

TOTEC is a very compact high power 18 inch subwoofer, with an operation frequency range from 28 Hz to 110 Hz at a maximum SPL of 136 dB. The primary use is together with DELILA and on option DIANA in flown or ground stacked configurations. Anyway it can be used in general with all speaker systems where extended low frequency level down to 30 Hz is needed. The width of TOTEC is equivalent to DELIA and its height is the same as the width of DIANA.

The used 18 inch neodymium chassis has got a 4 inch voice coil with 50 mm linear excursion capability rated at 1200 watts AES. It's optional integrated frequency modulated free floating amplifier delivers 1550 watts (3100 watts peak). The four tunnel bass reflex design produces a symmetric airflow by using it's integrated **APCT** „Air Pressure Control Technology“ for excellent sound at very accurate THD level.

The CTG-2.8 multiframe, witch is the same as used for DELILA, can be easily attached via quick lock pins. It allows to fly up to 6 TOTEC above 24 DELILA with a 12:1 safety factor, as well as ground stack configurations where a 6:3 ration of DELILA on TOTEC my be safely ground stacked or equivalent divisions. Same regulations and possibilities when using DIANA together with CTG-2.7 adapter frame (you will have to specify when ordering for DIANA use order code TOTEC-1DL).

## Operation

TOTEC produces a very rich sounding bass signal with an extreme linear frequency response. In clustered configurations the TOTEC subwoofer can produce a cardioid or hyper cardioid dispersion pattern with special settings on the HEIMDALL D1 digital controller, also in end fire configuration.

## Applications

- Concert halls, theatres and houses of worship
- Touring sound reinforcement,
- Small to medium indoor or outdoor events

## Features

- High power to size ration with optional integrated fan free amplifier
- Seamless integration with DELILA and DIANA line array loudspeakers
- Directional subwoofer array support via controller settings
- Easy quick lock system for fast flown or ground stacked configurations

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## Technical Specifications

### Transducers

- Low frequency: **18 inches** (457.2 mm) Neodymium
- Voice coil size and impedance: **4 inches** (101.6 mm) Cu, 8 ohms

### Output at 1m

- **136 dB SPL** ( 3 )  
135 dB driven with PAX P16  
135 dB driven with internal amps

### Power Handling

- Low frequency: **4000 watts** peak  
1200 watts AES  
2400 watts program  
rec. amp power on 4 ohms  
2800 watts

### Crossover type and frequency

- Sub to Low: **80 Hz - 120 Hz**

### Frequency and Phase response

- Usable frequency range: **28 Hz - 110 Hz**
- Free field frequency response:  
34 Hz - 150 Hz
- Phase response: **+/- 45°**  
from 41 Hz to 110 Hz

### Coverage

- Horizontal coverage symmetrical:  
cardioid / hyper cardioid when clustered

### Speakers per PAX P16 channel

- For external powered model:  
**2 / 4** ( 2 ) parallel via link connector

### Connection

- For external powered model  
**2 x NL4** (1+/1- LF, 2+/2- Sens)

### Mechanical specifications

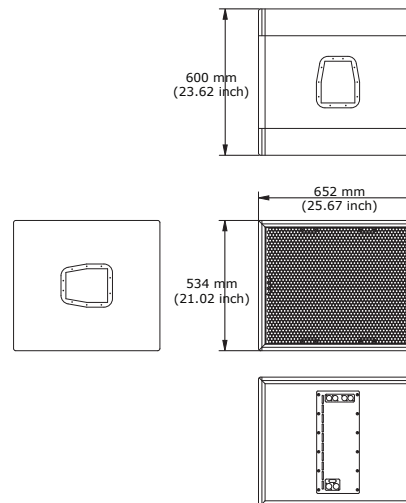
- Mounting: **4 Steel side plates** with quick lock
- Working load: 70 x Speaker-weight
- Construction: **18 to 30 mm** premium baltic birch plywood, black PU structured paint, hex stamped powder coated steel grill integrated full size zinc, powder coated steel flying tracks, 4 handles, aluminum back plate. Internal amp module mounted on a 7 mm aluminum back plate with total passive fan free cooling.

### Recommended additional Parts

- Flying frame: **Multi frame** CTG-2.8 or -2.7
- Wheel board: Aluminum Wheelbase CRB-1D for max 3x TOTEC

### Size and weight

- Height: **21.02 inches** (534 mm)
- Width: **25.67 inches** (652 mm)
- Depth: **23.62 inches** (600 mm)
- Weight:  
**121.25 lbs** (55 kg) internal powered model  
**116.84 lbs** (53 kg) external powered model



### Internal Amp module

### Type of output stage and power supply

- **Frequency modulated FM Class-D** with floating modulator, loop back regulated output filter. Fan free.
- power supply: **switch mode load regulated**

### Total output Power and Volts

- Music: 3100 Watts / 163 V at 8 ohms
- **RMS: 1550 Watts** / 115 V long-term driven with 1 kHz sine wave signal at 8 ohms

### Output power on connected load

- Low frequency: **1550 Watts rms**

### Audio specifications

- IM: **< 0,05%**
- DIM: **< 0,005%**
- CMRR: **> 80 dB** (100 Hz) Typical **> 90 dB**

### Audio input

- Connection: **XLR** female and male link  
Pin 1 ground, 2 +, 3 -
- Impedance: **20 kOhms Symmetrical** between Pin 2 and 3  
10 kOhms Unsymmetrical Pin 3 grounded

### Ac Power specifications

- Connection: **Powercon** in and Powercon link
- Voltage and consumption:  
**180 - 265 VAC, 50 Hz, 2,5 kW**

( 2 ) possible only with short length cables.

( 3 ) SPL max peak, test signal: pink noise with crest factor 6 dB.

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