



**Preliminary Specifications:  
XT-RockSolid**

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|--|--|
| System Type                                | Direct drive in-ground speaker (120-watt transformer for 70.7- or 100-volt applications)         |
| Impedance (nominal)                        | 8 ohm  |
| Impedance (minimum)                        | 5.2 ohm  |
| Sensitivity dB @ 2.83 V/1 m                | 66.5 dB  |
| Sensitivity dB @ 1 W/1 m <sup>1</sup>      | 66.5 dB  |
| Frequency Response (-3 dB) <sup>2</sup>    | 100 Hz - 18 kHz  |
| Frequency Response (-10 dB) <sup>2</sup>   | 75 Hz - 22 kHz   |
| Recommended Amplifier Power <sup>3</sup>   | 200 W  |
| Max. Continuous Power RMS <sup>4</sup>     | 100 W  |
| Max. Power SPL @ 1 m <sup>5</sup>          | 86.0 dB  |
| Coverage Angle (-6 dB @ 2 kHz)             | N/A  |
| Coverage Angle (-6 dB @ 10 kHz)            | N/A  |
| Coverage Angle (averaged from 2 to 10 kHz) | 360°   |
| Directivity Factor (Q)                     | N/A  |
| Directivity Index (DI) dB                  | N/A  |
| Tap Selector                               | Hardwire leads   |
| Transducer                                 | 2 SolidDrives®   |
| Enclosure Material                         | Polyurethane   |
| Inputs                                     | Hardwire lead  |
| Colors                                     | Sandstone, charcoal, red rock and custom colors available  |
| Height                                     | 330.2 mm (13 in.)  |
| Diameter                                   | 584.2 mm (23 in.)  |
| Weight                                     | 8.8 kG (19.4 lbs.)   |
| Shipping Weight                            | 9.3 kG (20.5 lbs.)   |
| Included Accessories                       | Theft-resistant bracket, two strain reliefs, all-weather wire nuts and stainless steel fasteners |
| Packaging                                  | One per box  |
| Regulatory - CE                            | Approved   |
| RoHS                                       | Approved   |

**Transformer Taps**

|   | <b>70.7 V</b> | <b>Output</b> | <b>100 V</b> | <b>Output</b> |
|---|---------------|---------------|--------------|---------------|
| 1 | 120 W         | 87.5 dB       | 120 W        | 87.5 dB       |
| 2 | 60 W          | 84.5 dB       | 60 W         | 84.5 dB       |
|   | 30 W          | 81.5 dB       | 30 W         | 81.5 dB       |
|   | 15 W          | 78.5 dB       |              |               |

3 Recommended amplifier power capacity to provide sufficient dynamic range and achieve listed max SPL.

4 Continuous power rating, EIA-426-B test

5 Max output based on max continuous power

**Preliminary Technical Information**

- Proprietary SolidDrive® planar-source audio technology mated directly to a polyurethane enclosure delivers a consistent omnidirectional coverage pattern.
- SolidDrive technology uses symmetrically opposed neodymium magnets, which convert audio signals into acoustic energy, transferring that energy to the enclosure substrate.
- SolidDrive incorporates dual-voice coil technology in a durable, sealed aluminum casing.
- Using twin SolidDrives, the XT-RockSolid® delivers 86.0 dB max SPL, 66.5 dB sensitivity and bass response down to 75 Hz (-10 dB).
- UV- and weather-resistant speaker with professional-grade components for lasting performance.
- 70-volt, 100-volt and transformer bypass hardwire leads.
- Realistic rock-like surface with no visible grilles seamlessly blends in with a natural environment.
- Built-in passive equalizer (notch filter) module and high-pass filter.
- Due to RockSolid's relatively low sensitivity, SoundTube recommends using a preamp with at least +10dB gain
- Sandstone, charcoal, red rock and custom colors available.
- Included accessories: Durable in-ground theft-resistant bracket, two strain reliefs, all-weather wire nuts and stainless steel fasteners.

**Description**

The XT-RockSolid incorporates two SolidDrive transducers mated to a polyurethane enclosure to deliver consistent omnidirectional coverage pattern. For installations requiring high-performance sound in a durable speaker design, the XT-RockSolid incorporates a 70.7- or 100-volt transformer with a maximum SPL of 86.0 dB.

The SolidDrive transducer utilizes patent-pending dual-voice coil technology in an aluminum enclosure to transfer acoustic energy directly to the enclosure. By incorporating symmetrically opposed neodymium magnets the XT-RockSolid® achieves acoustic uniformity throughout



the listening space. The XT-RockSolid features a custom, built-in equalizer (notch filter) tailored for a smooth frequency response.

## Applications

The ultra-wide omnidirectional dispersion pattern and high SPL make the XT-RockSolid an ideal choice for theme parks, promenades, playgrounds, shopping malls, restaurants, resorts, gardens and other outdoor applications. The XT-RockSolid ships with an in-ground anti-theft bracket and stainless steel screws for outdoor security.

## Enclosure Technology

The XT-RockSolid series is engineered for maximum durability and performance. Unlike other 'rock' speakers, the XT-RockSolid's polyurethane enclosure is waterproof, lightweight, impact resistant, non-corrosive and UV-resistant.

## Patented SoundTube Technologies

SoundTube Entertainment and MSE Audio Group constantly develop new technologies that enhance audio product performance. SoundTube Entertainment innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dispersion, enclosure and dome technologies. MSE Audio Group actively defends its patents in order to protect SoundTube resellers and end users.

## Technical Data and Specification Tools

### Technical Data

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from SoundTube Entertainment or at [www.soundtube.com](http://www.soundtube.com).

Technical data and downloads include:

EASE™ data – 3-D polar plots.

EASE™ Address – 2-D modeling for distributed systems

Autodesk® Revit® software

Tech Sheets – Technical information and architectural specs for system engineers

SoundTubeSPEC™ – Proprietary speaker placement software

### Data Acquisition and Verification

All data for SoundTube speakers are independently collected from and verified by NWAALabs ([www.nwaalabs.com](http://www.nwaalabs.com)) using their proprietary MACH testing system. All data are collected and analyzed according to ASTM, ISO and AES standards using EASRA, TEF and MLSSA. Full balloon data including both phase and magnitude are compiled into a variety of formats including EASE 4.x, GLL and CLF. Test data have not yet been generated for the XT-RockSolid products. Please contact SoundTube for more information.

### Architectural Specifications

The loudspeaker shall be an in-ground design consisting of two SolidDrive transducers mated directly to a polyurethane enclosure. The transducers shall be constructed with neodymium magnets in an anodized aluminum enclosure.

Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend from 75 Hz to 22 kHz (-10 dB). Measured sensitivity (2.83 volt input, 1 meter) shall be at least 66.5 dB. The speaker shall have a nominal impedance of 8 ohm and have a rated power capacity of 100 watts RMS. The max SPL shall be 86.0 dB.

Installation for the system shall be by a steel anti-theft bracket with stainless steel fasteners, a hardwire lead with two built-in strain reliefs, built-in passive equalizer (notch filter), high-pass filter, and junction box.

Overall cabinet dimensions shall be 330.2 mm (13 in.) in height by 584.2 mm (23 in.) in diameter and weigh no more than 8.8 kG (19.4 lbs.).

The system shall be the XT-RockSolid for both low- and high-impedance applications.

## SoundTube Entertainment

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**All SoundTube products come with a 5-year limited warranty.**



## Graphs and Plots

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**Frequency Response**

**Impedance/Phase**

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**Vertical Beamwidth**

**Directivity Index (DI)**



**Polar Plots**

125 Hz

250 Hz

500 Hz

1,000 Hz

2,000 Hz

4,000 Hz

8,000 Hz

10,000 Hz

**Mechanical Drawings**

**Included Accessories**

**Optional Accessory**