

# HL118S LTR

REAR LOADED BASS HORN 18 INCH SUBWOOFER  
DATA SHEET

SUB SERIES

## FEATURES

- Powerful output up to continuous power of 700W for extreme requirement application
- One of the World's best subwoofer transducers with ultra-high sensitivity and extra-low distortion, capable of 5ms peaks of 7000 watts
- Very low Excursions at extreme drive level, due to accurate design of the rear load of the bass horn
- Optimized line impedance, for easy amplifier loads
- Ultra control of bass with new technologies of transducer
- Enhanced bracing for rigid cabinet for tight bass
- Stackable cabinets
- No phase problems in the near field notorious of horn based designs

## APPLICATIONS

- Touring and rental systems
- Concert halls and Houses of worship
- Club / Lounge installations
- Disco installations

## DESCRIPTION

This subwoofer design represents the true philosophy of waveburg when it comes to designing a state of the art "no compromise" speaker. We believe in putting more emphasis on the science and art of sound, rather than the commercial, marketing driven way of building speakers. The HL118S LTR is the best of all worlds, it has the near field punch of a direct radiation subwoofer, plus the bass horn characteristic of long throw, far field bass. The HL118S LTR will satisfy bass addicts from 3 feet away to the end of a football court. The possibility of arraying this sub is a dream come true for concert and large venue applications. Stacking the subs with the horn mouth in the The Subwoofer has an 18 inch 4 inch voice coil LF Transducer in a rear loaded, Hyper Exponential 2.35 meter horn length. Frequency response of +/-3 dB at 55 Hz to 250 Hz and +/-10 dB of 35 Hz to 300 Hz measured on axis. While measured at 1 W @ 1 meter on axis, the system shall produce 104 dB of sensitivity and a continuous power of 700 W and shall have a nominal impedance of 8 ohms. With the active crossover connected loudspeaker, the system can deliver a maximum SPL at its continuous power of 132.5 dB.

The LF driver should contain a weather protected cone and plate, with unique design of basket for heat dissipation.



## SPECIFICATIONS

### System Configuration

Rear Loaded Bass Horn Subwoofer

### Components

LF 18 inch Ultra-High output Subwoofer Driver

### Frequency Response (1W@1m)

+/-3dB 60 Hz to 250 Hz

-10dB 35 Hz to 300 Hz

Sensitivity (SPL, 1W@1m) (1) 104 dB

Recommended Crossover point 150 Hz

Impedance 8 ohm

### Rated Power

Continuous (2) 700 W

Program (3) 1400 W

Peak (4) 2800 W

### Calculated Full-range Maximum Sensitivity

Continuous 132.5 dB

Program 135.5 dB

Peak 138.5 dB