

PL312F II

Dual 12" Three way Weatherproof Line Array Speaker

DESCRIPTION

The PL waterproof line array system is composed of the PL312F II dual 12" full-frequency waterproof speaker and the PL218BF II dual 18" subwoofer. PL312F II speakers can be grouped into 8 or 16 units in a flying line array when needed, and the PL218BF II can be grouped into 4 or 8 units to form a bass sound field. The line array system is compact and lightweight with simple installation and connection, it is specially designed for outdoor touring performances.

PL waterproof line array speaker is designed based on the IP54 international waterproof rating standard, primarily used for outdoor mobile performance that meets the professional sound reinforcement needs of unexpected rainfall weather and humid environment with high moisture density.

All components of PL312F II are designed following the IP54 international waterproof rating standard, and the cabinet structure is specifically designed with diversion and anti-splashing installation. The equipment is assembled with a unique production sealing process to ensure the equipment reaches the waterproof safety features of the IP54 rating. It also utilizes the function characteristic of executing high-quality sound reproduction.

The fan-shaped cylindrical wave emitted by each speaker in the PL waterproof line array speakers can be seamlessly coupled to form a coherent cylindrical wave. The opening angle between the two speakers is adjustable from 0° to 10°.

The LF transducer optimizes the magnetic circuit through finite element analysis to achieve ultra-low distortion and maximum clarity under high sound pressure. It has the overheating protection function of the driver temperature, and the flawless protection circuit is entirely safe and reliable.

PL312F II adopts a multifunctional structural design, and the cabinet is composed of imported plywood from Russia. The surface utilizes polyurethane spray treatment to provide superior weather resistance. The cabinet is equipped with a specified flying frame that can be conveniently and reliably installed and hung according to different environments.



TECHNICAL SPECIFICATIONS

| | | |
|---------------------------|---------------------------------|--|
| Acoustical specifications | Frequency Response(-3db): | LF: 55Hz-600Hz; MF/HF: 400Hz-18kHz |
| | Max SPL @ 1m: | LF: 123dB/129dB(PEAK); MF/HF: 120dB/126dB(PEAK) |
| | Dispersion (H x V): | 100° x 0 - 10° |
| Transducers | Compression driver: | 2 x 3" HF |
| | Woofer: | 2 x 12" LF |
| Input/Output section | Input Connectors: | 2 x NL4 |
| | Sensitivity (1W @ 1m): | LF: 96dB; MF/HF: 102dB |
| Processor section | Crossover frequencies: | 400Hz |
| Power section | Total Power: | LF: 600W; MF/HF: 70W;(RMS); LF: 1200W; MF/HF: 140W;(MUSIC); LF: 2400W; MF/HF: 280W;(PEAK); |
| | Nominal Impedance (Ohm): | LF:8 Ω; MHF:16 Ω |
| | | |
| Physical specifications | Cabinet/Case Material: | 15mm Imported birch plywood |
| | Handles: | 2 x Iron handles |
| | Grille: | Weather resistant polyurethane finish, black powder coating for grille |
| | Color: | Black |
| Size | Dimension (W x D x H): | 810 x 475 x 354mm / (31.9 x 18.7 x 13.9in) |
| | Package Dimensions (W x D x H): | 605 x 470 x 955mm / (23.8 x 18.5 x 37.6in) |
| Weight | Net Weight: | 48 kg / 105.8 lb |
| | Gross Weight: | 52 kg / 114.6 lb |