Q-SYS

Q-SYS PL-LA12
Two-way passive 12-in installation line array

KEY FEATURES

- 12-in LF transducer & two HF compression drivers in a bass-reflex enclosure

- Weatherized (IP54) ABS enclosure for indoor and protected outdoor environments

- QSC LEAF™ Waveguide provides superior acoustic performance

- Pairing with Q-SYS network amplifiers provides unique system optimization through custom voicings and filter sets

- Flyable with the PL-SUB18 installation subwoofer

- Black (RAL 9011)

Q-SYS PL-LA12

Two-way passive 12-in installation line array

The Q-SYS PL-LA12 is a two-way, passive installation loudspeaker designed to deliver premium sound for Q-SYS systems in a broader range of entertainment applications. From auditoriums and House of Worship to theatres and music venues, the PL-LA12 offers a high-performance line array ideal for front-of-house in small to medium sized venues. All of the PL Series loudspeakers take advantage of the power and performance delivered by the Q-SYS Platform, including simplified setup and custom voicings, rock-solid power via Q-SYS network amplifiers, advanced telemetry, monitoring and customizable end user control.

DELIVER THE RIGHT SYSTEM FOR YOUR CUSTOMERS

PL Series loudspeakers provide an abundance of options to ensure the right loudspeaker solution anywhere in the venue that requires higher performance audio.

The PL-LA12 is a two-way line-array featuring an 12-in transducer and two high-frequency compression drivers in a bass-reflex enclosure that provides a high-performance solution for front-of-house in small to medium sized venues such as auditoriums and concert halls. They feature the QSC Length-Equalized Acoustic Flare™ (QSC LEAF™) waveguide, providing superior acoustic performance through highly optimized internal sound paths. Combining the PL Series line arrays with Q-SYS network amplifiers also enables unique system optimization. Any addition to the line array or curvature change will change the tonal response, requiring high, mid, and low frequency balancing that Q-SYS delivers automatically with custom voicings and filter sets to simplify deployment and deliver optimal performance.

All of the PL Series loudspeakers feature a weatherized enclosure (IP54 rating), making them a perfect choice for indoor or protected outdoor applications. Pairing them with the Q-SYS Platform, including Q-SYS processing and network amplifiers extends a number of unique benefits from custom loudspeaker voicings (Intrinsic Correction™) and protection safeguards to advanced telemetry, helping to speed up deployment and deliver a more holistic system operation experience.

FULL CONTROL AND MONITORING FOR ENTERTAINMENT VENUES

The Q-SYS Platform offers a full-featured control engine that lets you deploy the right level of intuitive user control and system visibility for each stakeholder in the venue. Design an advanced system control interface with Q-SYS UCI Editor for the sound operators, containing any combination of gain, preset triggers, status indicators, telemetry data and more. Similarly, enlist Q-SYS Reflect Enterprise Manager to remotely monitor and manage the integrity of your system from anywhere, and even allow an offsite technician to identify and troubleshoot issues from any web browser.

SEAMLESS Q-SYS EXPERIENCE FOR ENTERTAINMENT VENUES AND COMPLEXES

PL Series performance loudspeakers are part of a comprehensive Q-SYS system portfolio that delivers a holistic audio, video and control experience for the entire venue. Whether you need foreground reinforcement for your performance area, background music in the lobbies or ancillary areas, collaboration in the meeting rooms, wide area audio distribution or third-party device integration and automation, the Q-SYS Platform ties these pieces to deliver a uniquely tailored experience throughout.

Q-SYS PL-LA12

Tranducers	LF: 12 in (305 mm), 2.5 in (63.5 mm) voice coil, neodymium magnet HF: 2x compression driver, 1 in (25.4 mm) exit, 1.75 in (44.5 mm) voice coil
Enclosure configuration	Bass Reflex, two-way passive/bi-amp line array loudspeaker
Coverage (horizontal x vertical)	90° x 15°
System bandwidth[1] (-10dB with EQ)	-3 dB: 59 Hz - 20 kHZ -6 dB: 54 Hz - 20 kHZ -10 dB: 50 Hz - 20 kHz
Crossover HF-LF	1.5 kHz (passive) 1.2 kHz (bi-amp)
System Sensitivity[2]	102 dB
LF sensitivity	95 dB
HF sensitivity	110 dB
Max SPL (continuous)[3]	119 dB (passive) 123 dB (bi-amp)
Max SPL (peak)[4]	131 dB (passive) 135 dB (bi-amp)
Max SPL (calculated)[5]	133 dB (passive)
Power rating[6]	49 Vrms, continuous power 300 W @ 8 Ω, rated power 600 W @ 8 Ω
LF Power rating	49 Vrms, continuous power 300 W @ 8 Ω, rated power 600 W @ 8 Ω
HF Power rating	31 Vrms, continuous power 120 W @ 8 Ω, rated power 240 W @ 8 Ω
Nominal impedance	8 Ω (passive), 8 Ω (LF), 8 Ω (HF)
Minimal impedance	6.6 Ω (passive), 6.9 Ω (LF), 6.4 Ω (HF)
Connectors	2x Speakon NL4 up to 10 AWG (6 mm²). 1x Euroblock locking 4 poles (parallel to Speakon): 8 AWG (10 mm²) The connector is recessed and may be covered by an IP65 sealing plate.
Rigging angles	0.5, 1.5, 3, 4.5, 6, 8, 10, 12
Deployment[7]	Ground stacking 3x PL-LA12 (requires PL-LA12-AF Array Frame or a PL-SUB18) Flyable up to 12x PL-LA12 or 3x PL-SUB18 + 10x PL-LA12 (requires PL-LA12-AF Array Frame)
Enclosure material	Impact-resistant ABS
Enclosure color	Black (RAL 9011)
Grille thickness	16 Ga, 1.5 mm
Weatherization	IP54; Stainless screws; UV and Corrosion treated grille; Aluminum Rigging Hydrophobic Stainless Steel Mesh behind grille; Input cup (IP65) sealing with gland
Dimensions	Net: 15.4 x 24.4 x 15.8 in (392 x 620 x 401 mm) Shipping: 18.4 x 26.3 x 20.5 in (470 x 670 x 520 mm)
Weight	43 lbs (19.5 kg) 51.2 lbs (23.2 kg)
Recommended amplifiers	Q-SYS CX-Q Series network amplifiers - up to four (4) loudspeakers per channel on CX-Q 8K4 - up to two (2) loudspeakers per channel on CX-Q 4K4
Accessories	PL-LA12-AF array frame PL-LA12-PB pull back bar LA-KIT-I (single deployement)

1. Default voicing, no sub high pass, smoothed
2. 1 W/ 1 m, averaged on 200-10 kHz (System), 200-2 kHz (LF) or 1 k-10 kHz(HF)
3. Used for simulation. Measured 1m on-axis in free space after 1mn. Pink noise 12 dB crest factor into RMS protection, Z weight, RMS value
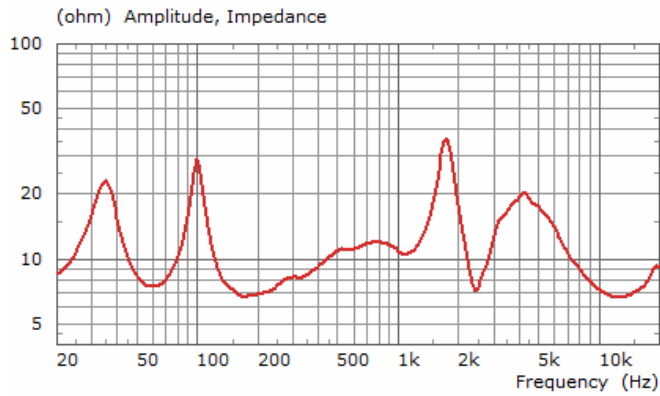4. Same as continous SPL +12 dB CF
5. Provided for reference with former specs, calculated from continuous noise power and sensitivity +6 dB, default horn
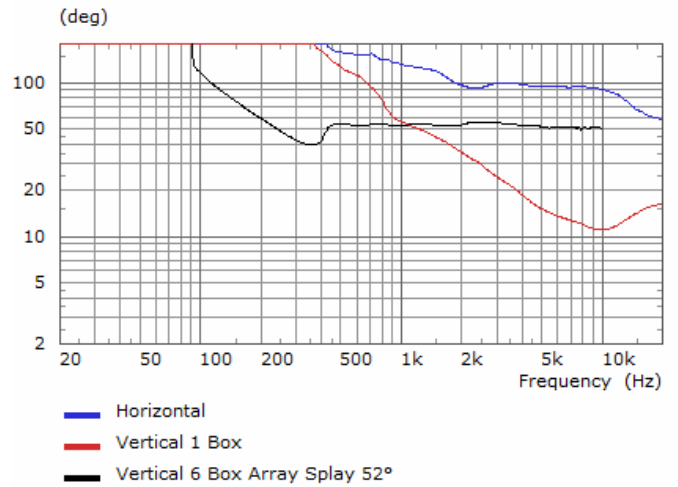6. Max voltage during 2 h without transducer permanent damage. Protection voltage will be lower.
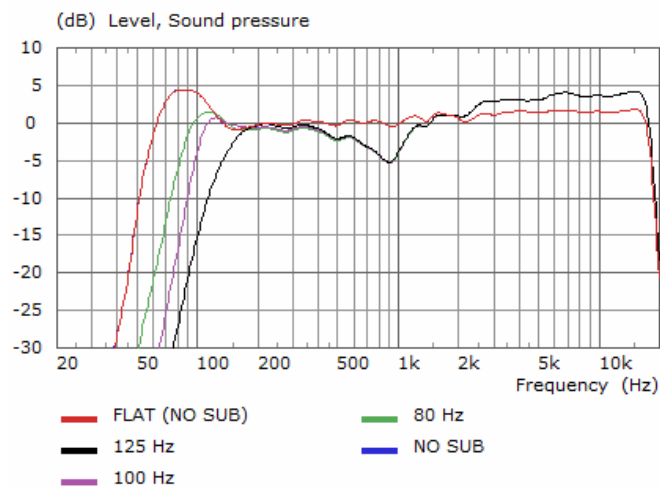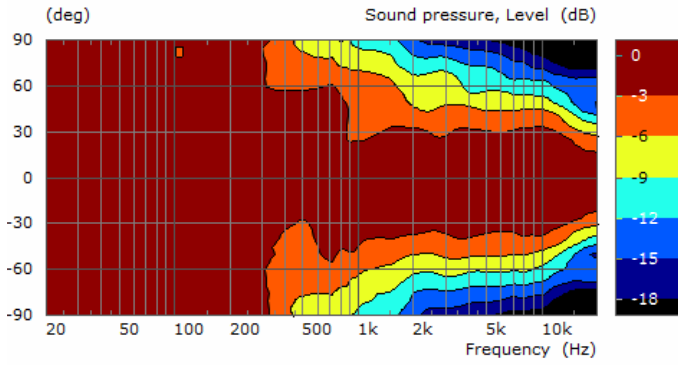7. Consult the User Manual for Factor of Safety information

Impedance

(ohm) Amplitude, Impedance

Beamwidth

(deg)

Horizontal

Vertical 1 Box

Vertical 6 Box Array Splay 52°

Frequency Response

(dB) Level, Sound pressure

FLAT (NO SUB)   80 Hz

125 Hz   NO SUB

100 Hz

Horizontal Coverage

Vertical Coverage