



PS6118-P

Active subwoofer with flexible parameter settings

Application:

PA system for multi-purpose spaces, houses of worship, auditoriums, clubs, restaurants, karaoke bars, music bands.



Maximum SPL 131.5 dB/1m

Frequency Range 38 – 140Hz

18", 700W Woofer (B&C SPEAKERS)
with Neodymium Magnet, Voice Coil 4"

Class D Power Amplifier (1400W RMS)
with Switching Power Supply

Built-in DSP Engine with Functions of Filtering,
EQ, Amplifier and Speaker Overload Protection

2 Line Inputs and Outputs (XLR)

Line Outputs Switch: THRU/SAT
(in SAT Mode Processed Signal for Satellite
Connection is Applied to Line Output)

Input Level Control

Output Signal Polarity Switch (Norm/Rev)

Signal Delay Switch
(0, 1, 2 Meters)

DSP Presets Switch
(1 Factory and 2 User Presets)

USB Interface to Connect to Computer
(DSP Setting)

Active subwoofer **PS6118-P** is based on 18" woofer (B&C Speakers, Italy), installed into the front panel of the cabinet. The **PS6118-P** cabinet is made of birch plywood with black water-polymer coating. Acoustic design - bass reflex. The front panel of the loudspeaker is covered with a decorative protective steel grid. Additional protection against moisture is provided by acoustically transparent foam, glued to the inner surface of the grid. Two ergonomic handles for carrying are located on both sides. The flange for speaker stand is located on the top of the subwoofer. The class D amplifier (1400W) is installed on insulated compartment into rear

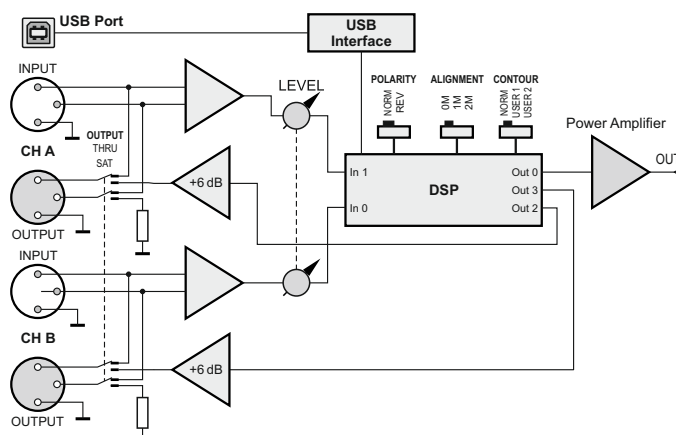
The amplifier is equipped with overload, short-circuit and thermal protection. The amplifier has switching power supply and forced cooling system with smoothly variable intensity

The **DSP** engine provides functions of crossover, optimal EQ, time alignment, limiting and speakers overload protection (by means of peak and RMS limiters). These **DSP** functions also ensure better quality of the "aggressive attack" in the operating range and ensures significant distortion reduction at increased sound pressure levels.

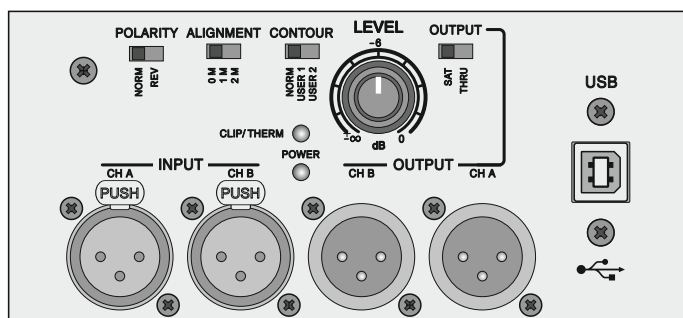
DSP engine also performs the functions of crossover for external full-range loudspeakers (processed signal is applied to line outputs). Line outputs also can be connected parallel to corresponding line inputs via switch. By default the **DSP** engine ensures aligned subwoofer operation with **PARK AUDIO** full-range loudspeakers.

The amplifier has 2 user presets, which allow to create PA systems settings for certain grounds. The presets can be changes via **SigmaStudio** graphic editor, installed to personal computer.

BUILT-IN AMPLIFIER BLOCK DIAGRAM



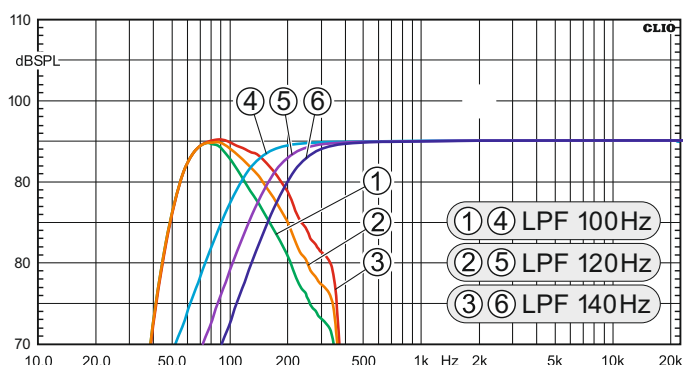
SETTING AND CONTROL



Preset Switch (CONTOUR)

Set frequency response subwoofer and external loudspeakers («tops»), connected to line output:

- **NORM** – factory preset;
- **USER 1, USER 2** – user presets (can be changed).



- ① ② ③ – subwoofer frequency response (NORM, USER1, USER2);
- ④ ⑤ ⑥ – frequency response on line output after crossover (DSP).

Line Output Switch (OUTPUT)

Line outputs can be connected either parallel to line inputs (THRU), or signal, processed by DSP can be applied to them. (SAT).

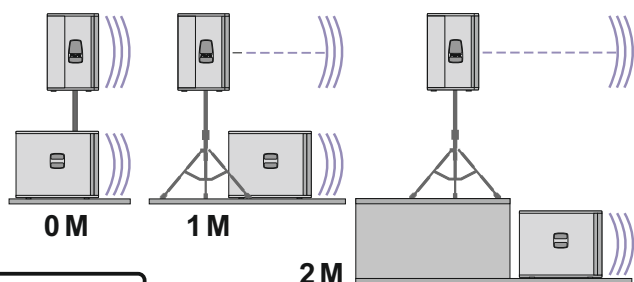
Polarity Switch (POLARITY)

Changes the polarity of signal, applied to the subwoofer. The switch used to align the subwoofer and satellite.

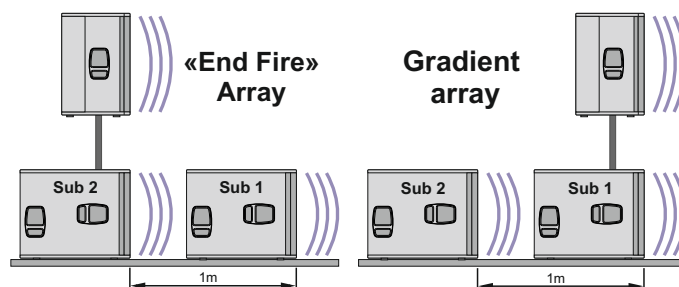
Delay Switch (ALIGNMENT)

Allows to set a signal delay depending on the relative distance between the subwoofer and satellite :

- **0 M** (0 meter) – for loudspeaker, installed on top of the subwoofer;
- **1 M** (1 meter) – for loudspeaker, installed at the speaker stand near subwoofer;
- **2 M** (2 meter) – for loudspeaker, installed at the speaker stand far from the subwoofer, or the subwoofer, installed below the stage.



Delay switch can be used for subwoofer arrays installation.



See the manual for details

Due to the acoustic interaction of two or more subwoofers connected with a corresponding delay, it is possible to get a cardioid

TECHNICAL DATA

Loudspeaker

Configuration

Active Subwoofer

Acoustic Design

Rectangular Cabinet, Bass Reflex

LF Driver: 18" dia B&C SPEAKERS, voice coil 4"

Nominal Power Handling	700W
Continuous Power Handling	1400W
Frequency Range	38 – 100Hz
Maximum Output SPL (full space)	131.5dB *
Weight	39 kg
Dimensions	570 (W) x 543 (H) x 677 (D) mm

Built-in Amplifier with DSP engine

Power Rating (RMS)	1400 W, class D
Sensitivity	775 mV
Input Impedance	10 kOhms
Signal-to-Noise Ratio	98 dB (unweighted)
Input/line output	2 x XLR / 2 x XLR
Cooling	forced**
Power Requirements	~160–250 B, 50/60 Hz
DSP engine:	Sampling Rate 48kHz, DAC / ADC 24-bit, Internal Processing 56-bit.

Note.

* For comparison purposes and in accordance with common industry practice, maximum SPL specifications are calculations based upon transducer sensitivity, amplifier output voltage and speaker impedance.

** With smoothly variable intensity. At a normal temperature and low output level the fan is OFF.

