



Application note



Rev. 1.0

Publish date: 2022-10-25
Page 1 of 1

Originator	CoE	Distribution	External
Product	EST-VES-* / GST-VES-*	Component	
Hardware	Compact PAVA system	Firmware	1_1_0 or higher

EST-VES & GST-VES high power

Purpose

Increase of the power availability on the PAVA compact lines due to a firmware improvement.

Applications

We hereby inform the modification of the maximum power usable from the following PAVA equipment, while set with firmware 1_1_0 or higher.

SKU	Firmware 1_1_0 or more recent
EST-VES-2***-*** GST-VES-2***-***	2 x 160 = 320W
EST-VES-4***-*** GST-VES-4***-***	2 x 320 = 640W
EST-VES-8***-*** GST-VES-8***-***	3 x 500 = 1500W

The changes in EST-VES-2xxx and 4xxx and 8xxx series specification are related to the changes introduced in the new firmware. In previous specification we presented rated power, as a RMS power of a sine wave signal, but the audio message or the music it's not a sine wave. This means that the amplifier drives the loudspeaker maximum level of load only in short-term peaks, its long-term (average) power can be significantly lower. It is generally accepted that a continuous output power of 1/8 of the maximum sine wave power corresponds to music signals and messages. For the power suppliers selection, we've taken an additional margin at the level of 1/4 of the maximum sine wave power. At the same time, advanced algorithms have been implemented, which allows for short-term signal peaks without affecting the signal clipping.