

EST-PA1650B

Power amplifier D-Class 1x650 Watt

Overview

The Amplifiers are designed for perfect integration into the EDWARDS solutions. Thanks to their flexibility, they can also be used for any other Public Address and Voice Evacuation applications. These amplifiers have been developed to meet the specific requirements of the EN 54-16 standard for safety installations.

The EST-PAXXXB is a family of 2U, rackmountable, 8-channel (EST-PA8080B, EST-PA8160B), 4-channel (EST-PA4160B), 2 channel (high power EST-PA2650B) and 1 channel (EST-PA1650B) class-D transformer isolated power amplifiers for 50 V and 100 V distributed loudspeaker systems. Amplifier EST-PA8080B can deliver up to 8 x 80 W, for EST-PA8160B and EST-PA2650B delivering power increases respectively to the 8 x 160 W and 2 x 650 W. In a bridged mode amplifier channels are combined and can deliver 4 x 160 W for EST-PA8080B, 4 x 320 W for EST-PA8160B and 1 x 1300 W for EST-PA2650B. These amplifiers have 48 VDC input which allows to connect with battery backup system for maximum availability and durability in an voice evacuation system.

The EST-PAXXXB amplifiers are powered from external power supply module EST-PS48800 working in a block. The current from block is distributed to individual amplifiers through the "power manager" EST-PSM48 (device includes a battery charger and is in compliance with EN 54-4).



Details

- Front panel indicators include: Supply / Active / Fault
- 100 / 50 Volt available via terminal blocks at the rear
- EST-PA1650B combines with the EST-PSM48 Power Supply Manager (charger and back-up supply)

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Technical specifications

Eléctrico

Tipo de fuente de alimentación	48 VCC
Consumo de corriente	0.15 A (at 48 VDC, Standby) 0.23 A (at 48 VDC, Active) 19 A (at 48 VDC, Max. nominal current)
Voltaje de funcionamiento	42-57 V

Físico

Peso neto	10.8 kg
Peso de envío	12 kg

Estándares y regulaciones

Normativas	EN54-16
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Electrical

DC fuse rating (internal)	1 x 15 AF- H 2 x 7.5 AF- H
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Overall power efficiency 80%
nominal DC input max
output power at 1 kHz

Amplifier

Continuous nominal output power per channel, all channels driven into nominal load at 1 kHz 30°C ambient	650 W 15.4 Ω / 200 nF
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Continuous nominal output power per channel, all channels driven into nominal load at 1 kHz 55°C ambient	TBA
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Nominal balanced input level for 100 V output at 1 kHz and nominal load	1 V
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Balanced input level trim range for 100 V output at 1 kHz and nominal load *	0.95 - 3 V
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Max balanced input level	3 V
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Input impedance at 1 kHz	22 k Ω
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Input common mode rejection at <1 kHz	> 61 dB
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Frequency response (-6 dB)	75 Hz - 22 kHz 15.4 Ω / 200 nF
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S/N ref nominal power at 1 kHz	> 85 dB 22 Hz - 22 kHz 15.4 Ω / 200 nF
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THD power 1 kHz (42 V - 57 V)	< 10%
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Crosstalk between channel 50 Hz - 20 kHz nominal load	< -70 dB 15.4 Ω / 200 nF
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Physical

Front panel width	482 mm
Back panel width	445 mm
Height	88.5 mm
Packaging dimensions	150 x 530 x 610 mm (W x H x D)
DC input socket	DG58C-A-2P13
Audio output socket	3 pin PHOENIX 5.08 mm
Nominal output voltage taps	50 / 100 V



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