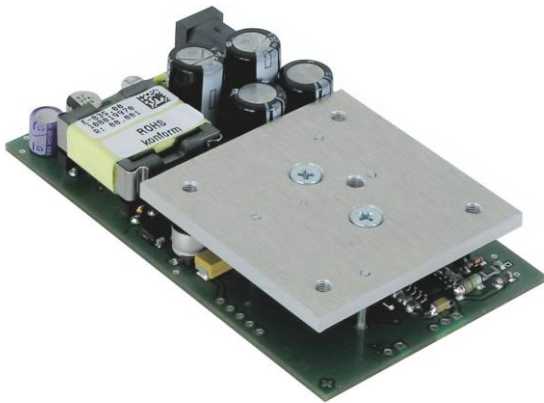


# DuraAct Piezo Amplifier

## Bipolar Operation for Piezoelectric Patch Transducers



### E-835

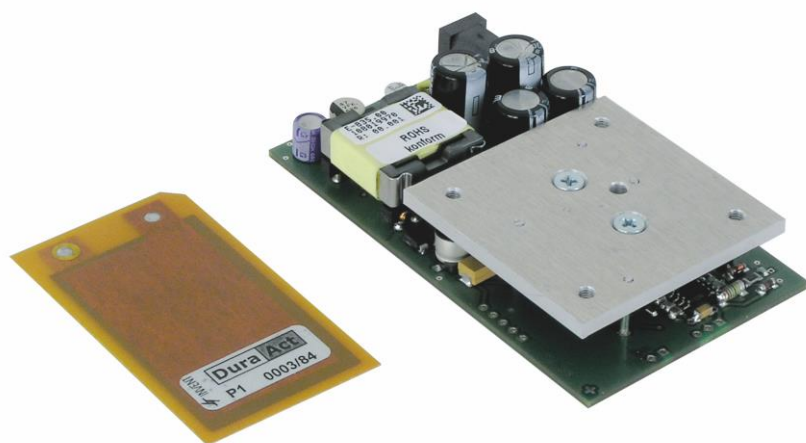
- OEM module for piezoelectric DuraAct patch transducers
- Peak power to 30 W
- Output voltage range -100 to 250 V
- Compact: 87 mm × 50 mm × 21 mm
- High bandwidth >4 kHz

## Specifications

	E-835.00
Function	Power amplifier for DuraAct piezo patch transducers
Channels	1
Amplifier	E-835.00
Input voltage range	-4 to 10 V
Output voltage	-100 to 250 V
Peak power	30 W (<15 ms)
Average output power	3 W
Peak current	120 mA (<15 ms)
Average output current	40 mA
Current limitation	Short-circuit proof
Voltage gain	25
Amplifier bandwidth, small signal	4.2 kHz (60 nF)
Amplifier bandwidth, large signal	4.2 kHz (unloaded); 500 Hz (60 nF)
Ripple, noise, 20 MHz	2 mV <sub>pp</sub>
Output impedance	33 Ω
Amplifier resolution	<10 mV

<b>Amplifier</b>	<b>E-835.00</b>
Input impedance	100 kΩ
<b>Interfaces and operation</b>	<b>E-835.00</b>
Piezo voltage	Soldering points
Analog input	Soldering points
Voltage monitor	Soldering point, 1:100
<b>Miscellaneous</b>	<b>E-835.00</b>
Operating temperature range	5 to 50 °C (above 40 °C, power derated)
Overheat protection	Deactivation at 100 °C
Dimensions	87 mm × 50 mm × 21 mm
Mass	67 g
Operating voltage	12 V / 1.7 A 5.5 mm - barrel connector
Max. power consumption	20 W

## Drawings / Images



*DuraAct P-876 patch transducer (left) and DuraAct E-835 piezo amplifier (right)*

## Ordering Information

### **E-835.00**

OEM Piezo amplifier for DuraAct patch transducer, 1 channel