

Piezo Amplifier for Multilayer Bending Actuators

Benchtop Device and OEM Module



E-650

- Specifically designed for operating dynamic multilayer piezo bending actuators without position sensor
- Benchtop and OEM versions
- Peak power to 18 W
- Voltage display

Specifications

	E-650.00	E-650.OE
Function	Power amplifier, benchtop device	Power amplifier, OEM module
Amplifier	E-650.00	E-650.OE
Input voltage range	0 to 10 V	0 to 10 V
Output voltage	0 to 60 V, additionally 60 V fixed voltage	0 to 60 V, additionally 60 V fixed voltage
Peak power	18 W	8 W
Average output power	6 W	4 W
Peak current, <5 ms	300 mA	140 mA
Average output current >5 ms	100 mA	60 mA
Current limitation	Short-circuit proof	Short-circuit proof
Voltage gain	6 ±0.1	6 ±0.1
Amplifier bandwidth, large signal	600 Hz with 1000 nF load, 6 kHz without load	200 Hz with 1000 nF load, 3 kHz without load
Input impedance	100 kΩ	100 kΩ
Interfaces and operation	E-650.00	E-650.OE
Piezo connection socket	Sub-D 9 (f)	Soldering pins
Analog input socket	BNC	Soldering pins
Display and indicators	3½-digit LCD	–
Miscellaneous	E-650.00	E-650.OE
Operating temperature range	5 to 50 °C	5 to 50 °C
Dimensions	160 mm × 125 mm × 50 mm	70 mm × 42 mm × 30 mm
Mass	0.7 kg	0.15 kg
Operating voltage	90 to 240 VAC, 50 to 60 Hz (external switching power adapter, in the scope of delivery)	±15 V, 315 mA max., stabilized

Drawings / Images



E-650.OE (OEM module, left) and E-650.00 (benchtop device, right)

Ordering Information

E-650.00

Piezo amplifier for bending actuators, 0 to 60 V, benchtop device

E-650.OE

Piezo amplifier module for bending actuators, 0 to 60 V, OEM module