



maintronic

# DPA4-150 digital 4-channel 100V-ELA amplifier

Art.No.: 60.515



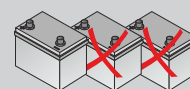
- 4x150 - 2x300 Watt with 100V transformer
- 24V/48V DC emergency power
- Very low standby consumption
- Auto Sense - On/Off through Input Signal
- System monitored with signal contacts



Energy-saving  
9W in standby



Monitored



Less battery capacity  
necessary

Professional ELA systems need reliable components. The DPA 4/150 is a digital class D 100V ELA amplifier with 4x 150W peakpower and 100V output transformers. Very low installation depth and space-saving 2RU.

Energy-efficient design with a standby consumption of max. 3.8W, combined with a smart Auto Sens function (automatic power up of the amplifier).

Redundant power supply with automatic DC backup and switching for emergency power operation. Equipped with all monitoring functions, signaling contacts, soft start and sequential power-on.

The reliable electronic design with all protection circuits guarantees an uncompromising transmission quality and a long-term trouble-free operation.

### Auto Sense:

Automatic switching on and off of the amplifier through the audio signal.

### Cooling:

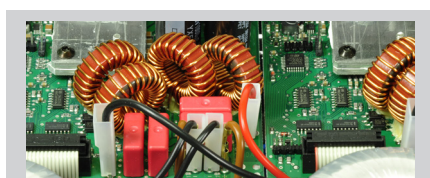
Convection cooling + fan

### Redundant power supply:

Backup power supply. In the event of a fault, automatic backup is performed on DC 24V / 48V.

### Inputs:

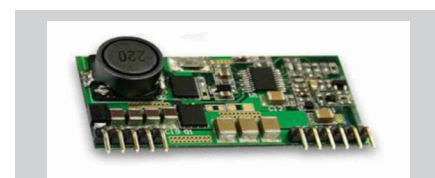
Each channel has an electronically balanced input (opt. with transformers). As well as an input for bridgemode and a pilottone input.



digital amplifier block



Processor monitored



Energy deficiency with DC-DC converter

# DPA4-150

## digital 4-channel 100V-ELA amplifier

Art.No.: 60.415



### Outputs:

Earth-free with transformer (speech) or as an option with transformer (music)  
Peakpower /CH 4x 150W or 2x300W

### Power supply

Soft start of the device.  
In the event of a power failure, the system automatically switches to emergency power mode (DC 24 V / 48V).

### Protection circuits:

Overtemperature, DC, HF and short circuit, Power limitation by electronic limiter. All functions of the amplifier are monitored by the microcontroller.

### RS485 interface:

Controlling of the amplifier, polling of important parameters and communication with the control panel through a RS485 interface (as an option)

### Software:

Flexible programmable and adaptable to a wide variety of protocols.

### Sequential remote power-on:

Device can be switched on / off via the remote contact or the RS485 bus.

### Monitoring contacts:

2x channel monitoring OK  
DC 24V power supply Ok  
AC230V power supply OK  
Remote on + 24V off 0V

### Minimal assembly efforts:

All connections with plug-in screw terminals.  
No additional external wiring of the transformers needed.

### Compact and space saving:

Only 2 HE with 4 channels. Very small installa-

Technical Data	measuring condition	Data
Supply voltage AC		220-240 V AC, 50/60 Hz
Supply voltage DC		24V (20 - 28V DC) optional 48V (42 - 58V DC)
Peakpower (at 230V~ power supply)	66 Ohm/33 Ohm 100V	4x150W 2x300W
THD+N	1kHz 50W	0,2%
Frequency response speech	-3dB	90Hz - 10kHz
Frequency response music	-3dB	80Hz - 20kHz
Input sensitivity	1kHz	1V eff
Input impedance	1kHz	10Kohm
Signal-to-noise ratio	1kHz; 50W; Vol 0.5	85dB
Autosense On		-45dB
Electronically balanced inputs		1 input each channel
<b>Optional transducer potential-free</b>		
Starting current	230V AC	11A with NTC recovery time 70 sec.
Starting current with R 100ohm (as an option)	230V AC	6A (500mS) with R recovery time 1 sec
<b>Power consumption</b>		
Standby	24V DC	0,16A 3,8W
Standby	230V AC	0,045A 10W
Full load	24V DC Sinus signal	27A
Full load	230V AC Sinus signal 100V 66 Ohm	3,7A
Sequential-Power-ON		Power Delay approx. 2 seconds per device
<b>Connectors</b>		
Input connectors		plug-in screw terminal block 12 pin
Output connectors		plug-in screw terminal block 3 pin
DC In		plug-in screw terminal block 2 pin
Power supply 230V		IEC plug - power supply 230V AC
Potential-free outputs		with optocouplers max. 24V DC, 10mA (serial connection possible)
Auto Sense		NF-Input >50dBm (70Hz-20kHz Auto Sense)
Remote ON		Ch. On/Off through remote contact; 12V - 24V DC, ca. 10mA
RS485 (optional)		RJ45 connectors
Cooling		convection cooling + speed-controlled fan
Weight		16,5kg
Dimension		19" 2RU (482x88x280 mm)



Illustration shows full equipped