

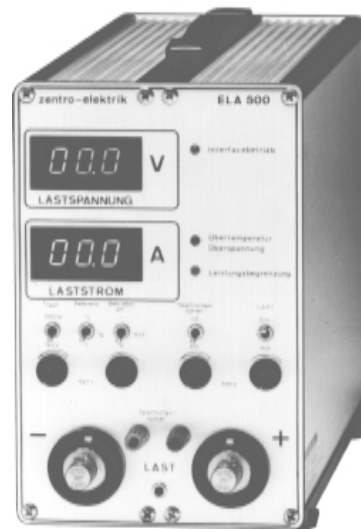
## Electronic DC Load

Made in Europe 

IEC-BUS  
compatible with  
Interface Series  
INT 2

### Power 200 W + 1500 W Series ELA

Constant I-Mode or R-Mode  
Master - Slave Mode  
Ext. programmable current const.  
Ext. programmable with  
R - Module, P- and R const.  
Option: Installed Interface



#### Input:

Input voltage 230 V<sub>AC</sub> - 10% + 6%, 50 ÷ 60 Hz  
Load voltage see table  
Load current see table  
Power see table

#### Regulation:

Set point accuracy ≤ 0,1% I<sub>max</sub>  
(Voltage change ± 20%)  
Rise time (10 ÷ 90%  
nominal value change at  
I-Mode) ELA200: ≤ 10 μs  
ELA500: ≤ 15 μs  
ELA1500: ≤ 20 μs  
Temperature coefficient  
(after 15 min. working time,  
const. ambient temp. and  
const. input voltage) ≤ 0,1% / K I<sub>max</sub>  
(within 8 hours)

#### Protection:

Overload protection power limit, short circuit protection  
Overvoltage protection power shutdown U<sub>Lmax</sub> + 10%  
Thermal protection power shutdown, auto recovery  
Reverse polarity wattless current diode and fuse;  
protection ELA1500

#### Environmental Condition:

Operating temperature 0 ÷ + 35 °C  
Cooling int. fans, temperature controlled

#### Safety:

Safety standard EN61010  
Isolation  
AC input - load input: U<sub>L</sub> ≤ 60 V: 1 kV<sub>rms</sub>  
U<sub>L</sub> > 60 ÷ 110 V: 1,5 kV<sub>rms</sub>  
1 kV<sub>rms</sub>  
AC input - ground: U<sub>L</sub> ≤ 60 V: 500 V<sub>rms</sub>  
Load input - ground: U<sub>L</sub> > 60 ÷ 110 V: 1 kV<sub>rms</sub>

#### EMC:

Input EMI filter EN50081-1  
Input immunity EN50082-1

#### Operation and Control:

Manual adjust:  
Adjustment current and resistance:  
each 2 levels (max., min.)  
each with a pot. (coarse/fine)  
Pulse-generator I, R 100 Hz or 1 kHz switch-selected,  
waveform: square-wave 1:1

#### Programming

ext. voltage (reference -U<sub>L</sub>)  
0 ÷ 10 V ± 0 ÷ I<sub>max</sub>  
any waveform, frequency range:  
ELA200: 0 ÷ 40 kHz (3 dB)  
ELA500: 0 ÷ 25 kHz (3 dB)  
ELA1500: 0 ÷ 20 kHz (3 dB)  
Option R - Module:  
ext. voltage 0 ÷ 10 V ±  
power constant 0 ÷ P<sub>max</sub>,  
ext. voltage 0 ÷ 10 V ±  
resistance constant R<sub>min</sub> ÷ R<sub>max</sub>,  
$$\frac{3,5 \text{ V}}{I_{\max}} = R_{\min} \quad \frac{2000 \text{ V}}{I_{\max}} = R_{\max}$$

Master - Slave - Mode  
Parallel operation  
Monitor Signals

two same units, see drawing  
same units  
current Monitor 0 ÷ 10 V,  
digital signal: overtemp., over-  
load, over- and undervoltage  
**R-Module:** analog 0 ÷ 10 V for  
voltage and current,  
digital overload and overtemp.  
overvoltage and overtemp.,  
overload each 1 LED  
ELA500: Interface-Mode 1 LED  
LED digital for voltage and current  
ELA200, ELA500: 3 - dig.,  
ELA1500: 3 ½ - dig.,  
accuracy: 0,2% ± 1d

Indication

Instruments

#### Connectors:

Input Euro - plug with switch,  
rear side  
Load ELA200: jack 4 mm Ø  
ELA500: high current plugs  
type DIX SE50  
ELA1500:  
I ≤ 20 A: banana jack 4 mm Ø  
I > 20 A: high current plugs  
type DIX SE50  
female plug incl.

#### Physical Specifications:

Dimensions ELA200: 70 x 220 x 330 mm  
ELA500: 140 x 220 x 330 mm  
ELA1500: 250 x 220 x 440 mm  
in addition with INT2E: w+30mm  
see table  
Weight

Power (W)	Load voltage (V)	Load current (A)	Load resistance (W)	Weight (kg)	Model Number
200	1 ÷ 40	0 ÷ 40	0,10 ÷ 30 k	4	ELA200/40/40D
200	1 ÷ 75	0 ÷ 20	0,10 ÷ 30 k	4	ELA200/75/20D
200	1 ÷ 75	0 ÷ 40	0,10 ÷ 30 k	4	ELA200/75/40D
200	1 ÷ 110	0 ÷ 20	0,10 ÷ 30 k	4	ELA200/110/20D
500	1 ÷ 75	0 ÷ 99	0,04 ÷ 10 k	7	ELA500/75/100D
1500	1 ÷ 40	0 ÷ 199	0,02 ÷ 10 k	12	ELA1500/40/200D
1500	1 ÷ 75	1 ÷ 100	0,02 ÷ 10 k	12	ELA1500/75/100D

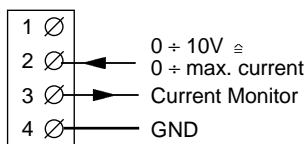
**Options:**

Sub front panel  
 colour al. anodized  
 - ELA200: 6 U, 16 T  
 - ELA500: 6 U, 32 T  
 R - Module  
 Sub D connector for ELA200..  
 (with Option R-Modul at ELA200..  
 Sub D connectioin standard)  
 Installed Interface Euro-Card INT2E  
 Cable for external Interface INT2

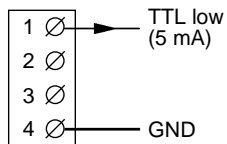
1 T = 5,08 mm, 1 U = 44,45 mm

**Connections**

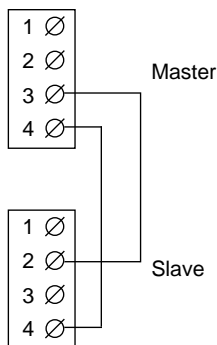
Ext. programming



Output for Signal  
 overvoltage, overload  
 and overtemp.



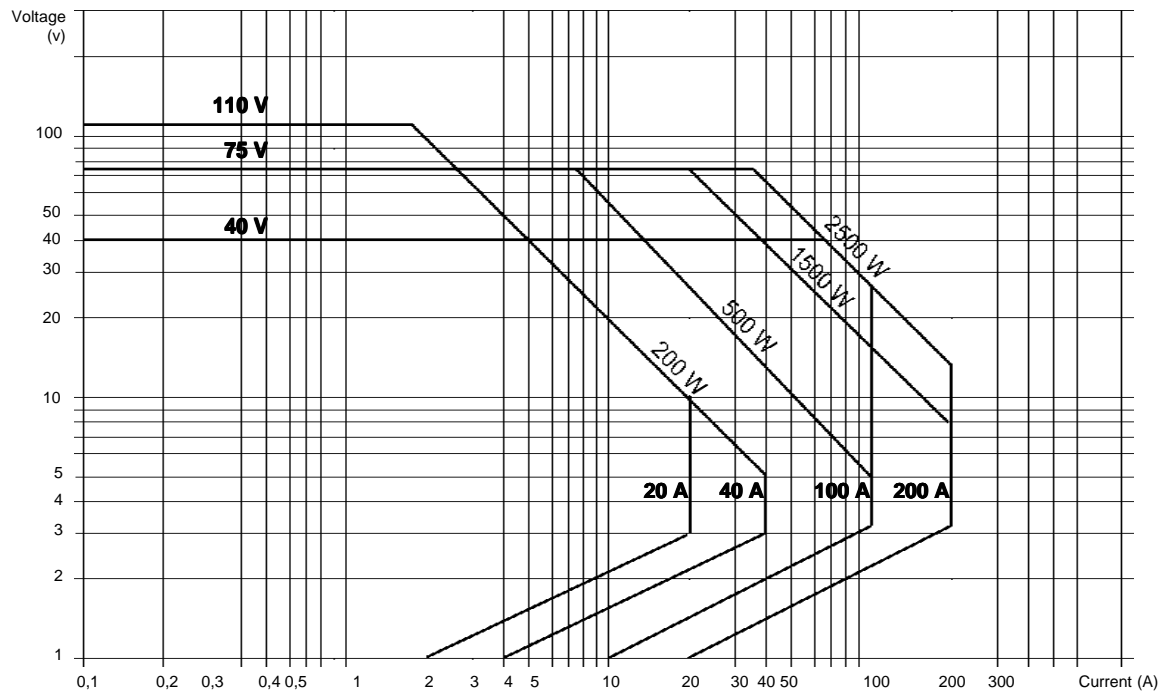
Master - slave - Mode



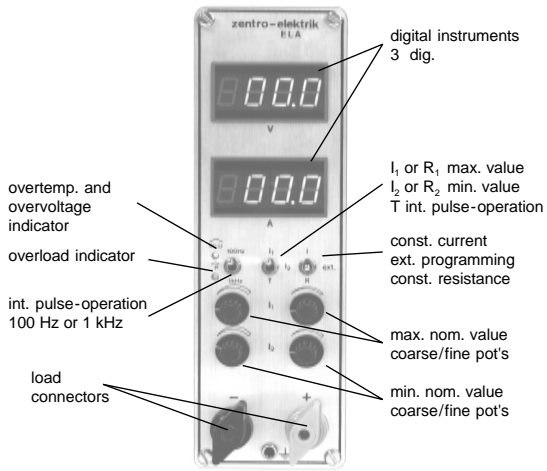
To parallel load terminals

Connections on the rear side  
 of the unit  
 Attention! Load cable with min. area  
 10 mm<sup>2</sup> / units at 40 A  
 25 mm<sup>2</sup> / units at 100 A  
 50 mm<sup>2</sup> / units at 200 A

**Operating range:**



**ELA200..**



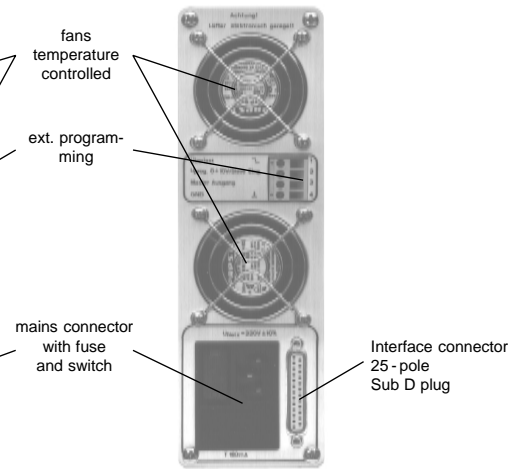
Front panel

**ELA200..  
Standard**

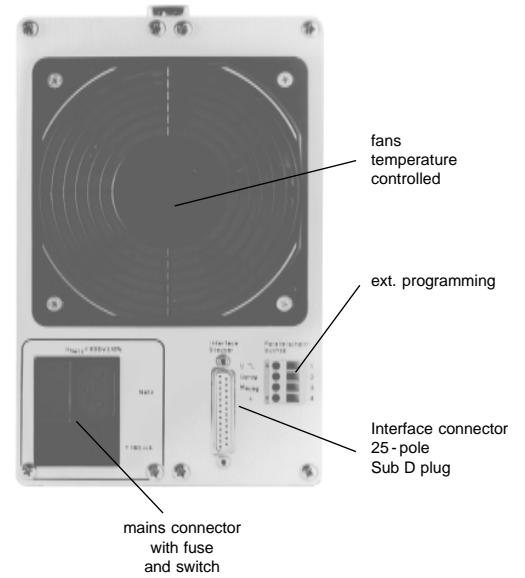
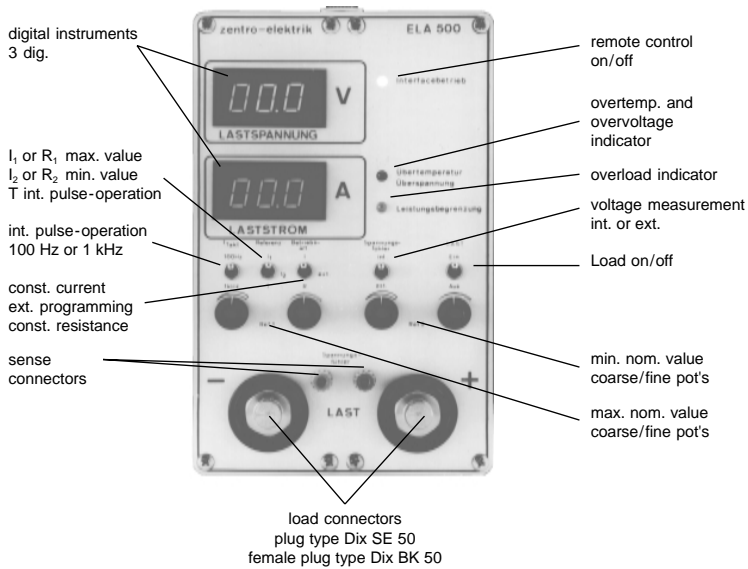


Rear panel

**ELA200..  
with Option R-Modul  
(Sub D connection)**



**ELA500..**



**ELA1500..**

