

# UNIVERSAL POWER SUPPLIES



- Universal power supplies
- DC- and AC-output voltages
- School- and Training applications
- Workshop and development
- Variable transformer up to 150VA
- Safety output sockets
- Volt- and Ammeter Cl. 2.0
- Input / Output isolated
- Safety: EN 60950
- EMI: EN 50081 part 1 and EN 50082 part 1



The output is isolated to the input and the case.

The output voltages is indicated on precise class 2,0 instruments.

The output voltages are available on separate safety sockets on the front panel.

A switch on the front selects the DC-output smoothing ON or OFF.

Output voltage is floating and can therefore be referenced to earth via the positive or negative rail. The unit case is always connected to mains safety ground.

On overload a temperature switch on the front shuts down the unit and can be reset by pressing the switch.

## General

These power supplies provide adjustable DC- and AC-voltages from 0...30V resp. 0...300V. There are no ventilation slots in either the top or base of the equipment, also no external heatsinks, for improved safety, all sockets are recessed.

This attention to safety and unit protection makes it ideal for Schools and Universities as well as test and development laboratories.

## General Data

Input voltage: 230VAC  $\pm$ 10% 50Hz \*)  
\*) other voltages on request

## Ambient conditions:

Storage temperature: -25...70°C  
Operating temperature: 0...50°C

Type No.	Output 1	Output 2	Output 3	Output 4	Dimensions WxHxD (mm)	Weight kg	Article-Number
EA-3050 A	0-30VAC/5A	0-30VDC/5A	0-300VAC/0,5A	0-300VDC/0,5A	307x107x195	14,8kg	08100210
EA-3048 A	0-30VAC/5A	0-30VDC/5A	—	—	233x117x195	11,1kg	08100208
EA-3048-10 A	0-30VAC/10A	0-30VDC/10A	—	—	233x117x195	14,8kg	08100211
EA-3049 A	0-300VAC/0,5A	0-300VDC/0,5A	—	—	233x117x195	11,1kg	08100209



EA-4000

## Description

These universally applicable power supplies are fitted with a variable transformer which supplies a continuously variable output voltage between 0 and 250V AC at 3A or 4,5A. A further transformer provides a constant output voltage of 230VAC resp. 240VAC at 2A.

**Output 1** The variable transformer is on the left hand side of the unit, together with a voltmeter and ammeter and the output socket. A German Schuko socket (230V) is fitted, other sockets are available. Nb: 13 AMP UK rated AC sockets.

The variable range of the transformer is divided into two ranges. The selector switch is on the left of the adjustment knob and can be used to select either 0...125V or 125...250V. The output voltage at the socket can be set within these ranges. The output is protected by a fuse. Voltage and current are shown on separate meters.

**Output 2** (230VAC resp. 240VAC/ 2A) is situated in the middle of the unit. This output is protected by a fuse mounted above the socket.

**Output 3** is on the right hand side of the unit in the area "laboratory power supply". The output voltage can be set between 0...30V DC using a tandem potentiometer and the voltage can be read on a voltmeter. The output current can be set between 0...3A with the potentiometer mounted below the ammeter.

**Output 4** consists of four series connected AC voltages. By appropriate connection AC voltages of 3, 6, 9, 12, 15, 18, 21 or 24V at 2A are available.

**Output 5** is on the right hand side of the unit and provides a constant stabilised 5V/1A for operating electronic circuits. A green LED indicates that the output voltage is available.

**Output 6** this can be used as a continuity tester. The sockets are mounted on the bottom right hand side of the unit. This output is polarised (+ and -) so that diodes and other polarised components can be quickly tested. A buzzer (15mA) indicates continuity.

- Variable transformer with Lab. power supplies
- All outputs isolated from one another and from the mains
- Transistor linear regulation for DC outputs
- Output power up to 1200 VA
- 0...250V AC/3A or 4,5A, 230V AC/2A  
0...30V DC/0...3A, 5V DC/1A, 3 to 24V AC/2A
- DC output voltage variable, coarse and fine
- Output current variable
- Volt- and Ammeter class 2,0
- EMI: EN 50081 part 1 and EN 50082 part 1
- Safety: EN 60950

\*Other voltages on request

TECHNICAL DATA	EA-4000-3 & EA-4000-4,5
Input voltage*	230V ±10% 50...60Hz
Output voltage 1	0...250V AC
Output voltage 2	230V AC
Output voltage 3 -Stability 0...100% load -Stability ±10% V <sub>INPUT</sub> -Ripple eff. -Temperature coefficient	0...30V DC ≤20mV ≤4mV ≤3mV 0,01%/°C
Output voltage 4	3, 6, 9, 12, 15, 18, 21, 24V AC
Output voltage 5 -Stability 0...100% load -Stability ±10% V <sub>INPUT</sub> -Ripple eff. -Temperature coefficient	5V DC ≤20mV ≤4mV ≤10mV 0,02%/°C
Output 6	Continuity tester (Buzzer 15mA)
Output current 1 Output current 2 Output current 3 Output current 4 Output current 5	3A or 4,5A 2A 0...3A adjustable 2A 1A
Storage temperature Operating temperature	-25...70°C 0...45°C
Weight Dimensions W x H x D	29kg 480 x 190 x 280mm
Article No. EA-4000-3 Article No. EA-4000-4,5	08100104 08100105