

# Zero1 AC/DC power supply

- Eliminate standby power consumption

## The Potential

A new standard component built into all future electrical circuit boards to eliminate standby power consumption.

The Zero AC/DC power supply is a patented component that reduces standby power to virtually zero (< 0,03 Watt) for all high voltage electrical applications.

It complies with existing and future regulations on power consumption and reduces Co2 emission to a minimum allowing you to run a business with real green leadership.

A new green standard with **remarkable power savings**.

## Partner up with us

We are the first to market a new standard component for reducing standby consumption. There are no comparable solutions on the market. Therefore partnering up with us will provide you with the following benefits:

- savings on development and time to market
- no use of additional components
- no costs on regulatory adaptations
- savings on tests and approvals
- savings for your customers
- upfront with customer demands and real green leadership



## Savings with ZZzero installed

- Height adjustable desks = 97% savings
- Audio/home theatre products = 76% savings
- Circulation pumps = 20% savings

## A brand new and patented technology

The ZZzero component is simple and easy to implement into any product. It fits into most existing designs and constructions. A one component solution that is cheaper than any conventional low power supply.

Using the ZZzero component in new designs you do not have to worry about approvals. It complies with most common standards for EMC, LVD, ESD, UL and RoHS. It allows you to focus on your own electronic circuits' design.

- Simple and easy implementation
- Low power supply (1 - 10W)
- Wide input range (85 – 265VAC)
- Adjustable output (2.7 – 30VDC)



## General description

Zero AC/DC power supply is a small size power unit for PCB mounting. Connects easily to an AC power circuit and can be used as main supply or as a supplementary power supply with no extra output needed - as an example for supply of standby or control circuits.

Zero AC/DC power supply is an improved version of a normal 50Hz transformer as well as most common low power switch mode power supplies. Due to the flexible input voltage range (85 to 265VAC) the Zero power supply is a fast, easy, green and economic choice for new designs.

Zero AC/DC power supplies are delivered in 4 power ranges and 3 standard voltage levels. By use of a resistor between adjust pin and plus or minus output, the output voltage can be adjusted to any output voltage between 2.7VDC to 30VDC.

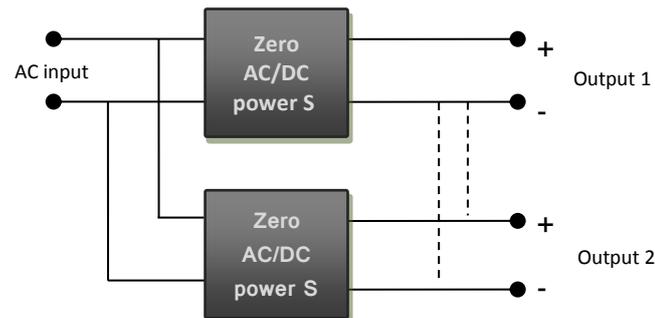
The output voltage is very stable with very low ripple voltage. In most applications there is no need for additional filters or voltage regulators. Input (primary) and output (secondary) are fully isolated. And the small dimension makes it easy to fit into any PCB design.

## Applications

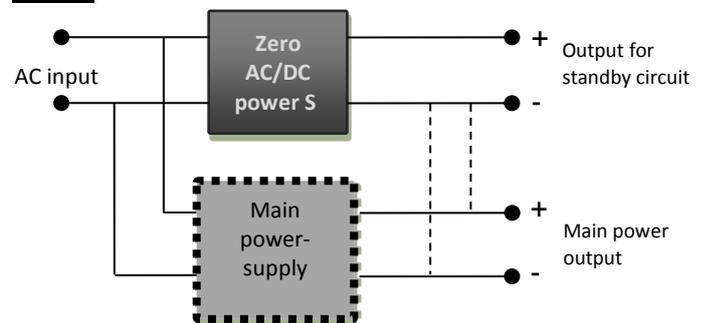
### A: Main supply (single output)



### B: Main supply (multiple output)



### C: Main supply + supplementary or standby power output



### D: Adjustable output



### About us - ZZzero ApS

ZZzero is an innovative company developing energy saving micro-power devices. We have more than 20 years of experience in electrical engineering, implementation, test and approval, documentation, commerce and legal advice.

### Our customers

- Manufacturers of electronic products and circuit boards
- Industrial and house-hold electrical appliances
- Medico

### Patent and trademarks

- Patented in Denmark
- Patent pending in EU, USA, Asia and Australia
- Trademarked
- Pattern protected

### Regulations

The EU-directive on eco-design requirements for standby and off mode electric power consumption of electrical and electronic equipment has now been implemented in the EU

- The standby limit in 2012 is 1W
- For 2013 it is 0,5W