

# Product specification

## DC power supply unregulated: PSU3024



**CE** compliant

- Smoothed output voltage
- Input 115 / 230 V<sub>AC</sub> - Output 24 V<sub>DC</sub> / 1,5 A
- Operating status shown by LED
- Parallel connection possible
- Short circuit proof
- Overload- and open circuit protected
- Simple mounting on rail acc. to DIN 46277 or wall mounting with screws
- Vibration proof, suitable for the tropics
- Epoxy resin casted
- Conforms to EMC and low voltage directive
- Extra low safety potential PELV (EN 50178) SELV (EN 60950)
- Output separated according to VDE0551
- Safety according to VDE, EN, UL, CSA

### Application

The power supplies of the PSU30 series are powerful and robust devices to power electrical loads, like contactors, magnetic switches, magnetic valves, relays or similar. Power supplies of this type are suitable as well for the most PLC-applications.

The uncomplex circuit arrangement guarantees the advantage of a long life span and a high degree of efficiency (>90%).

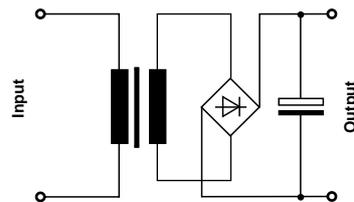
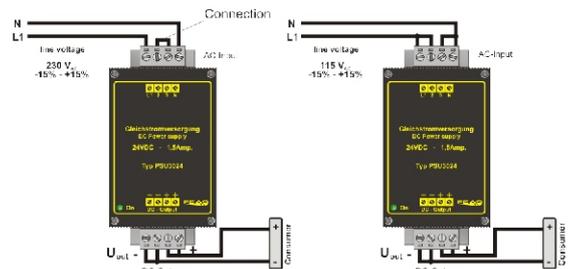
This power supply is optimally suited for loads requiring high starting current.

Because of its robust design, it is particularly suitable for being used in rough industrial environment. Furthermore it is quite insensitive to surge voltages.

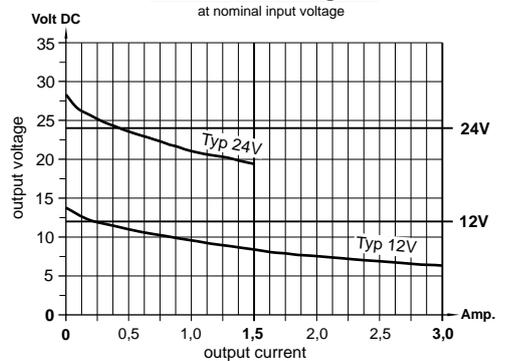
### Functional principle

In the unregulated power supply PSU30 AC voltage is transferred through a 50-Hz transformer. Afterwards the voltage is rectified by a bridge rectifier and the resulting pulsing DC voltage is smoothed with capacitors.

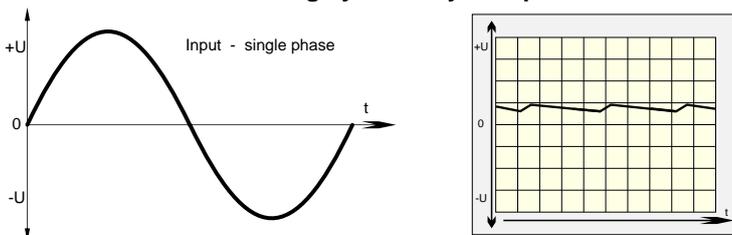
Because this type of power supply has no output voltage stabilization, the output voltage will also float accordingly to the transformation rate, depending on line-voltage fluctuations and consumer load.



**Load-current diagram**



### Effect of smoothing by electrolytic capacitors



### Design

Completely embedded with resin in a aluminum housing for mounting on rail or wall mounting with screws.

**!** Please read the data sheets and the user manual for further information.

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