

# DP500IP 1AC/ DP500IP 3AC Manual

## IP67 – Power Supply



*Image similar*

## Features

- Innovative enclosed IP67-power supply for professional OEM application
- Usage in rough environmental conditions possible
- Screw mounting (DIN-Rail adapter available on request)
- Very high efficiency
- Low Standby-Power (< 0,8 Watt)
- LED power indicator
- High transient stability
- No inrush current, active PFC
- Compact mounting form

## Important Note

Only qualified personnel are allowed to use the device for specified application. Read the instruction manual carefully and pay attention to the safety instructions and manufacturers requirements in any case!

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## 1. General safety instructions

- I. The DP500IP-Power Supplies are cable linked, enclosed power supplies for industrial usage.
- II. The devices are especially suitable for usage in industrial machinery according to NFPA79.
- III. When electrical devices are activated, certain parts are under dangerous voltage inevitably.
- IV. Improper handling of these devices can cause fatal injuries and substantial material damages.
- V. Only qualified personnel are allowed to work on these devices.
- VI. The device may not be opened, otherwise the test-certificate as well as the warranty expires. All necessary connections and adjustment elements for operation are accessible from the outside.
- VII. In the USA and other valid countries the device must be installed in accordance with the NEC and the UL508 standard.
- VIII. A separator to disconnect the power supply must be provided.
- IX. Before installation or work at the device, turn off the main switch and secure against unauthorized switching.
- X. Never work on applied voltage!

## 2. Important safety instructions

- I. Save these instructions
- II. The manual contains important safety and operating instructions.
- III. Only suspend the Power supply to the temperature ranges specified in the datasheet.
- IV. The use of accessories which is not recommended or sold by the manufacturer can result in a risk of electric shock or personal injury.
- V. Do not use the power supply furthermore, when there was a hard blow, fall damage or was damaged in any other way. In this case send the unit to a Deutronic service station.
- VI. The power supply may not be opened. If a service or a repair is needed, the device must be sent to an official Deutronic service center. Incorrect installation can result in electric shock or fire.
- VII. To reduce the risk of electric shock, the device must be disconnected from mains before maintenance or cleaning. The device`s switch-off only does not reduce the risk.

## 3. Technical data



For detailed technical data like input voltage, required mains fuse etc. see respective data sheet, which you can get on our product-CD, at our homepage [www.deutronic.com](http://www.deutronic.com) or on request direct from Deutronic.

## 4. Installations

The DP500IP power supplies are well suited for screw mounting by its mounting holes in the base plate. To ensure an optimal operation especially flat, thermally conductive mounting surfaces are recommended. For cooling requirements consider the values for overtemperature at the reference point in the appropriate datasheet.

An optional adapter for DIN rail mounting is available as an accessory.

### 4.1. Mains connection

The connection of N, L, PE (1-phase) or L1, L2, L3, PE (3-phase) is realized via the connectors of the mains cable. The PE connection is designed green/yellow in European countries and in the USA only green or green/yellow.

1AC types are applicable in IT-networks.

3AC types are not applicable in IT-networks.

#### **Make sure before starting:**

- The mains connection must be carried out professionally and the protection against electric shock must be secured.
- In accordance with the standards of UL 508 and NEC the device must be switchable in volt-free mode outside the power supply (e.g., by a breaker or the primary-side cable protection)
- The ground conductor (PE) has to be connected.

### 4.2. Output connection

More detailed information can be found in the relevant data sheet.

## 5. Function and signals

The DP500IP/3-24 Power Supply supplies in power boost mode up to 5s with 30A at constant voltage. After the expiration of the 5s the current limit is reduced to 20A. The output voltage is monitored here. If the output voltage differ more than 10% longer than 30s from the nominal output voltage the power supply turns into a locked "off" condition. A restart is only possible after the input voltage is separated for at least 20s. Furthermore the power boost is not available if the output voltage is outside the tolerance.

The exact signalling can be found in the relevant data sheet.

## 6. Service Center / Repair

### Instructions:

**Do not open this device!**

**All needed connections and setting elements for operation are accessible from outside.**

To ensure a fast and smooth processing it is absolutely important that every device sent to Deutronic for repair has a fully filled out return service scripture in which for every device all relevant data (e.g. address, name contact person, phone number etc.) as well as a detailed fault description is included.

The needed return service scripture as well as the worldwide service partner addresses you will find on our web page [www.deutronic.com](http://www.deutronic.com) in the menu item 'service worldwide'.

## 7. Disclaimer

The customer is responsible for the use of the device according to the specifications. Regardless of the type, Deutronic is not liable for damage incurred through the use of the device.

## 8. Contact

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All data at nominal input, full load and 25°C ambient temperature, if not marked otherwise. Technical modifications and mistakes reserved. Products are described by information contained in catalogs and data-sheets. It is not be considered as assured qualities. Stresses listed under „Maximum Rating“ (one at a time) may be applied to devices without resulting in permanent damage. The operation of the equipment for extended periods may affect device reliability. Limiting value tolerance are subject to usual fluctuation

