

Operating and installation instructions for power supplies

NG320301 NG400501 NG520201 NG631001
NC631001 NC852001 NCKA4001 NG52F001

Read before commissioning!

- For your own safety, read these instructions carefully before operating this product and pass them on to any other users of this product.
- Additional information on the products can be found on our website www.ipf-electronic.com.

Proper use

- These power supplies are intended to supply electrical loads and comply with the requirements of RoHS (2011/65/EC), Low Voltage Directive (2014/35/EU) and EMC Directive (2014/30/EU).
- **The power supply units may only be installed by qualified personnel!**

WARNING

Failure to observe the following points may result in electric shocks, fires, and serious accidents and death:

- Before commissioning, compare the input voltage and the input voltage range specified on the product, as well as the voltage and polarity of the output current and the power of the device to be connected. The values must match the requirements.
- Switch off the input voltage before carrying out installation, maintenance or modification work and secure the system against unintentional restart.
- Ensure proper and professional wiring.
- The operational safety of the product must be checked regularly, e.g. for damage to the housing and cables.
- In the event of malfunctions or damage, immediately switch off the operating voltage and return the product for inspection. The device does not contain any service components. Internal fuses, if present, will trip irreversibly in the event of a fault.
- All service and maintenance work must be carried out by qualified personnel only.
- Dangerous voltages are present inside the power supply. Therefore, do not open the housing.
- The product may only be operated as intended according to its IP protection. In case of increased requirements, the required degree of protection must be ensured by the installation, considering thermal loads.
- During operation, heating of the housing is normal and harmless. When installing, keep a distance of 10-15cm from the nearest heat source. Ensure sufficient ventilation of the power supply by simple air convection and do not place any objects on the power supply. For actively cooled power supplies, the fan and ventilation openings must be free of any obstructions.
- Do not expose the power supply to high ambient temperatures or direct sunlight. Do not operate the device near heat sources. Observe the restrictions on the maximum ambient temperature according to the data sheet.
- The ground connection (FG) of the power supply unit of protection class I must always be

grounded.

- The connected load must not exceed the rated values of the specification on output current and output power of the product.
- If used outside the intended purpose, the manufacturer's approval must be obtained.

Notes on wiring and commissioning

- Ensure proper and professional wiring. Make sure that no individual wires are protruding from stranded wires, that the complete stranded wire is in the terminal and that the screws of the terminals are tightened. Use suitable wire end ferrules for stranded wires. Also tighten the screws of unused terminals.
- The input and output connectors are not supplied. The suitability of the input and output connection links must be checked at the end product.
- Recommended cable sizes see table:

Rated current	6A	6 ... 10A	10 ... 16A	16 ... 25A	25 ... 32A	32 ... 40A
Cable size [mm ²]	0,75	1	1,5	2,5	4	6
AWG	18	16	14	12	10	8

Maintenance

- Disconnect the device from the operating voltage before cleaning.
- Do not use any cleaning agents for cleaning. Only wipe the device with a dry cloth.

Disposal

Used electronic devices are recyclable materials and do not belong in household waste.

If the product is at the end of its service life, dispose of it in accordance with the applicable legal regulations at the collection points of the disposal system.

Disposal via household waste is prohibited!

Power supply manufacturer:

