

Constant voltage charger in miniature format

Type UP 310



*»We store
the world's energy«*

Type UP 310

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The charger is primary switched with high frequency, 40 kHz, which gives high efficiency > 85%, excellent load and line regulation, small dimensions and low weight. The charger is protected by two fuses and the battery connections are also protected by two fuses.

The unit is equipped with alarm and is delivered fully equipped.

The charger type UP 310 is specially designed for operating together with lead acid batteries, open or valve regulated batteries.

Through a specific care and attention, the charger obtained a very low ripple level 0,05%.

On the front panel there is an exact digital volt- and amperemeter, which with the aid of a push button can either show output voltage or output current. On the front door there is also an illuminated main switch and terminals for connecting a voltmeter.

A new type of operation indication "Normal" has been introduced. This green LED shows that no alarms exist and that normal operation status exists.

The electronic alarm board contains the following standard alarms:

Mains power failure, Charger failure, and two voltage level alarms, that either can be configured as Charge level over/under voltage limit or as Low battery voltage and High battery voltage. The alarm levels are easily adjusted and the level can be shown on the digital display.

Standard Alarms

Sum-alarm that is indicated by a red LED. Alarm that goes away are automatically reset and the red alarm LED are extinguished. Sum-alarm has one relay with potential free changeover contact.

The charger is designed for indoor wall mounting. The charger is built in a metal case with an easily removable front. The unit is lacquered in a beige colour.

Benefits for the user

- > Very good load and line regulation
- > High efficiency
- > Low noise level
- > Small dimensions
- > Sum-alarm
- increased lifetime of the battery.
- low energy consumption.
- almost totally silent.
- easy to install.
- easy to use.

Product program

Order code	Voltage	Current	Primary fuse	Cabinet size	Weight kg
UP 310-12/5	12V	5A	6A	LH 1	7
UP 310-12/10	12V	10A	6A	LH 1	7
UP 310-12/20	12V	20A	6A	LH 2	10
UP 310-24/2,5	24V	2,5A	6A	LH 1	7
UP 310-24/5	24V	5A	6A	LH 1	7
UP 310-24/10	24V	10A	6A	LH 2	10
UP 310-24/15	24V	15A	6A	LH 2	11
UP 310-24/20	24V	20A	6A	LH 2	11
UP 310-24/35	24V	35A	10A	LH 2	11
UP 310-48/2,5	48V	2,5A	6A	LH 2	10
UP 310-48/5	48V	5A	6A	LH 2	11
UP 310-48/10	48V	10A	6A	LH 2	11
UP 310-48/15	48V	15A	10A	LH 2	11

Made for fixed installation, input: 230V 1-phase, and output: 12 , 24 or 48V DC.

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Constant voltage charger

Cabinet dimensions:	LH1	330 x 315 x 120 mm (WxHxD)
	LH2	430 x 370 x 150 mm (WxHxD)

Technical specification

Charger:

AC input voltage	230V +15% -15%, 1-phase 47-63Hz
Powerfactor	Better than 0,99
Cos fi	Better than 0,99
DC output voltage	Nominal 12V, 24V or 48V DC
Load and line regulation	Better than $\pm 0,05\%$
Output current limit	100-105% of nominal current
Constant voltage	I/U according to DIN 41773
Efficiency	Better than 85%
Ripple	Less than 0,05% RMS
Emission	Enl. EN 50 081-1 and EN 50 081-2 (1993)
Immunity	Enl. EN 50 082-1 and EN 50 082-2 (1993)
Harmony	Enl. EN 61000-3-2
Harmony standard	Enl. EN 60742 and EN 60950
RFI / EMI	According to EN 55022 B and CISPER 22 B
Cabinet	IP 20 wall
	IP 40 wall

Accessories:

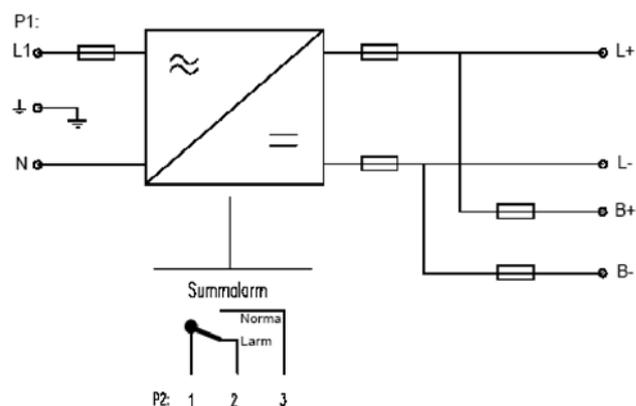
Cabinet for additional batteries - please request.

Standard Alarms:

- Mains power failure
- Charger failure
- High / Low battery voltage or
- Floating voltage failure

Sum-alarm

- relay with potential free changeover contact.





Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on over 100 years of experience in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and transportation applications.

GNB Industrial Power – A division of Exide Technologies – offers an extensive range of storage products and services, including solutions for telecommunications systems, railway applications, mining, photovoltaic (solar energy), uninterruptible power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better environment. Its Total Battery Management programme, (an integrated approach to manufacturing, distributing and recycling of lead-acid batteries), has been developed to ensure a safe and responsible life cycle for all of its products.