

Product specification

Battery charger SNT12512-BL



- Input range: 85 - 270 V_{AC}
- Output: voltage U 14.2 V_{DC} / current I 25A
- for charging and maintaining batteries
- Vibration proof, suitable for the tropics - epoxy resin casted
- Dust and moisture protection IP68
- Device protection, shutdown on overtemperature and automatic restart
- Operating status shown by LED
- Parallel operation possible, polarity reversal protection, short circuit proof, overload and open circuit protected
- Output separated according to VDE0551
- Conforms to EMC and low voltage directive
- PFC according to IEC/EN 61000-3-2
- Safety according to VDE, EN, UL, CSA

Application

With the SNT12512-BL charger you will find a powerful and robust power supply unit that is suitable for charging and maintaining the charge of batteries, for example on tractors and construction machines. The fully encapsulated aluminum housing results in high vibration resistance, dust protection and moisture protection of class IP68. The modern design ensures good radio interference suppression and high functional reliability. The SNT12512-BL charger is therefore ideal for supplying sensitive consumers in harsh industrial environments.

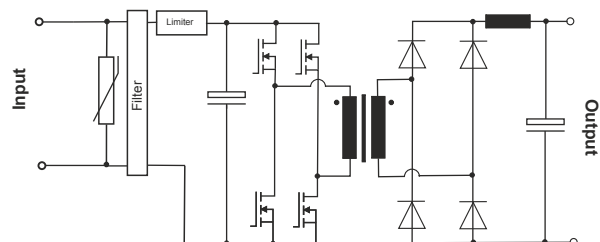
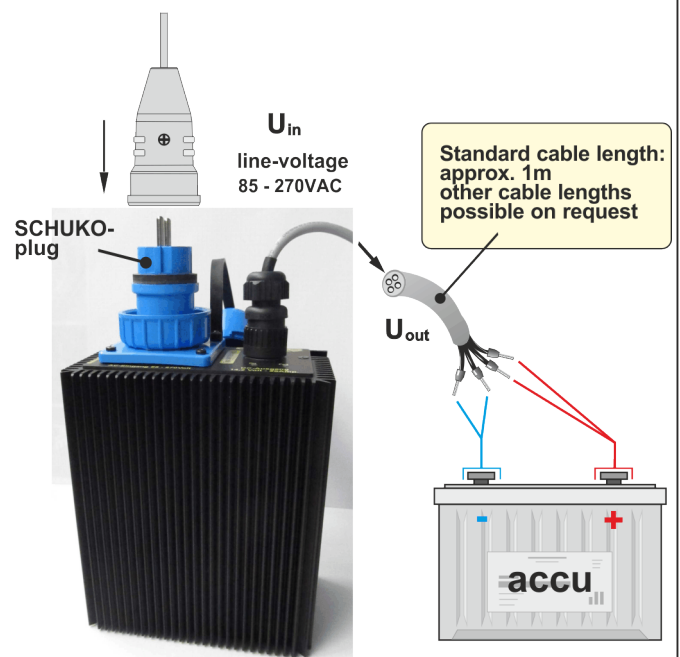
The charger is activated by connecting a Schuko plug. The charging current is limited to 25A. Otherwise, the charger adapts to the corresponding power requirement of the battery - until the end-of-charge voltage of 14.2V is reached.


Functional principle

The power supplies of the SNT125 series use a full-bridge push-pull converter. This type of converter in principle consists of two forward converters, which are connected in parallel. The switches are alternately connecting the primary windings to the input voltage. Due to this circuit design the transformer core is used in bipolar operation, doubling the magnetic flux within the core. Compared with a flyback or a forward converter much more power can be transformed with the same core design. Even during great load fluctuations the push-pull converter generates a symmetric output voltage. Because of that the alternating current can be processed directly without extra rectification.

Design

Including SCHUKO extension plug at the input and Hirschmann socket with 1 m connection cable at the output.



 Please read the data sheets and the operating instructions for further information