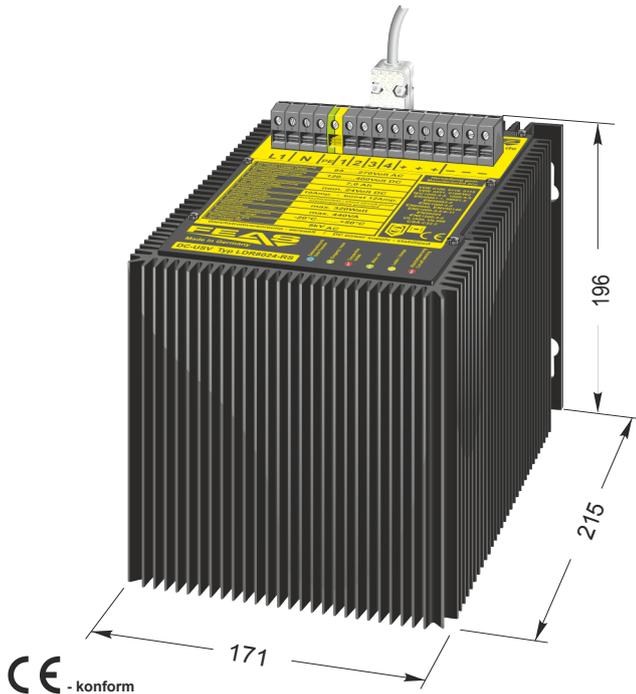


Product specification

Power supply with accupack (DC-UPS):LDR8024-RS



- Input range: 85 ... 270V_{AC} / 120 ... 400V_{DC}
- Output range: 21,0 ... 27,6V_{DC}
- Power: max. 320Watt
- Long buffer time: typ. 10A/24V 40min
- Lead-acid accumulator: 7000 mAh
- Fuse mode: Permanent switch-off when the current limit is exceeded
- LED signals: Mains, battery status, buffer operation, overtemperature, data exchange, shutdown warning
- Remote monitoring and remote control via RS-232 / RS-485 interface
- Easy battery management: automatic battery test, deep discharge protection, easy battery replacement
- short circuit proof, overload and open circuit protected
- Vibration proof, suitable for tropics, epoxy resin casted
- Conforms to EMC and low voltage directive
- Extra low safety potential PELV, SELV
- Safety acc. to VDE, EN, UL, CSA

Application

The **LDR battery pack** is connected between the line voltage and the system, to power it with DC voltage. If the line power fails, the system is supplied from the **lead-acid accumulators**, which are integrated in the LDR. The duration of the supply depends on the quantity of the load current of the system. Thereby the output voltage follows the accumulator voltage.

During mains operation and emergency operation an output current of **10.0 Amp.** can be obtained permanently. Temporarily the output current can **exceed the nominal current up to 20%**. The output is short circuit proof and protected against polarity reversal.

Via the **RS-232/RS-485 interface**, the LDR returns status messages (e.g. on mains, overtemperature or battery status) and accepts settings or commands (e.g. to switch off).

Operational principle

At the first operation of the LDR, the accumulator is charged. When charging is completed, the LED "Akku voll" will light green.

After a mains failure and when the mains supply returns, the maximum output current is immediately available again. Simultaneously the accumulator is charging. When fully charged, the accumulator is switched to trickle charging to compensate the loss of self-discharging.

Design

The internal power supply is completely casted. If necessary, the accumulators can be replaced easily. The LDR is delivered in an aluminium housing for wall mounting with screws.

