

# product specification

## DC-USV LDR30MH24



CE - konform

- Buffering of the 24V<sub>DC</sub> line at mains failure
- Integrated NiMH accumulator 0,72 Ah (exchangeable)
- Microprocessor controlled battery monitoring and charge status display
- Relay signals for mains failure, battery defect, overtemperature and battery voltage critical
- LED display for mains failure, overtemperature and overload
- 50% overload over some time possible
- Accumulator-monitoring and status of operation shown by LED
- Extra low safety potential PELV (EN 60204), SELV (EN 60950)
- Short circuit, overload and open circuit proof Suitable for the tropics - epoxy resin casted
- Manual shut down in buffer mode "sleep mode"
- Buffer time terminable (1 up to 20 minutes and unlimited)
- Output potential free according to VDE0551 Safety according to VDE, EN, UL and CSA

### Application

The power supply LDR30MH24 is suited for medium-sized load which have to be supplied constantly. When the mains fails the load is supply by a powerful NiMH accumulator. The buffer time can be adjusted from 1 minute to 20 minutes or can be left unlimited.

During an undisturbed mains the internal power supply supplies the facility and charges the accumulator with the optimal charge method. The output voltage doesn't follow the accumulator voltage but can be adjusted from 22,5V up to 29,5V with a trimmer.

It is possible to overload the device by 50% for a longer time. The outputs are short circuit and open circuit proof. To keep the heat of the devices in its limits it has an integrated multistage power withdrawal.

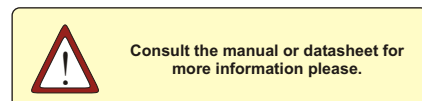
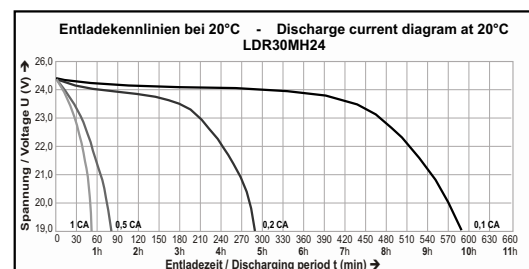
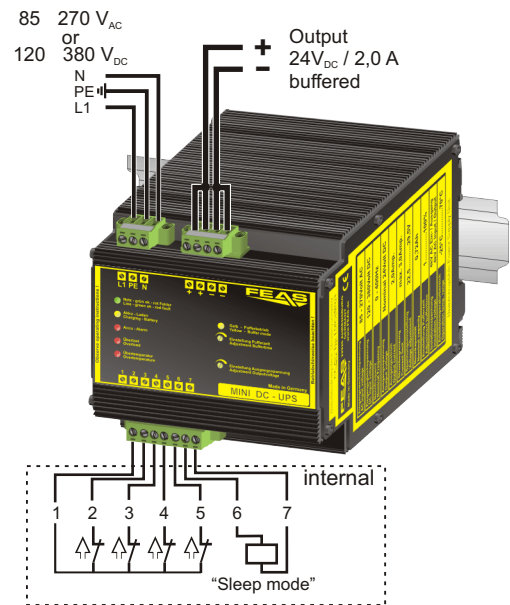
### Functional principle

With applied mains supply the LDR30MH24 begins to charge the accumulator. A LED signals the when the accumulator is fully loaded and offers the full buffer performance.

After a reconnected mains the maximum output current can be delivered and the accumulator gets charged again. When the charge regulator reaches the end-of-charge voltage the charge mode is switched to float charge to balance the self discharge losses.

### Implementation

The internal power supplies are fully casted however the accumulator can be exchanged with little effort. The LDR30MH24 comes ready for connection within a aluminium enclosure for DIN-rail mounting.



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