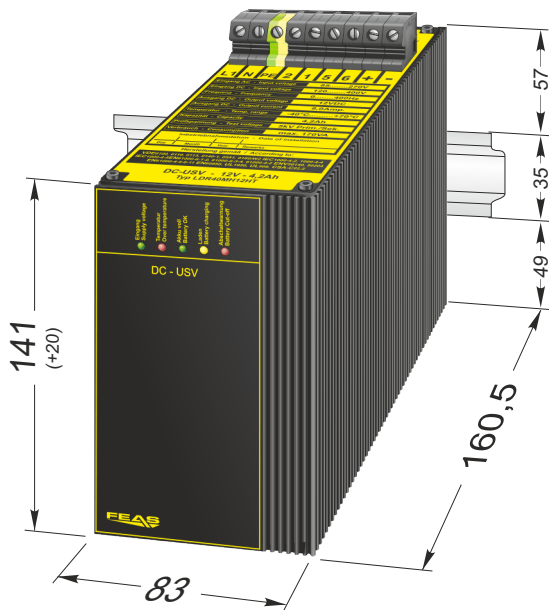


# Product specification

## Power supply with accupack: LDR40MH12-HT



- Input range: 85 - 270V<sub>AC</sub> or 150 - 400V<sub>DC</sub>
- Power nominal: 96 Watt
- Extreme temperature accus: -40°C bis +70°C
- Buffered time: 30min typ. 8A/12V
- NiMH-accupack: 4.2 Ah
- Operating status shown by LED:  
Input-supply, charging-level, buffer-mode, temperature
- Remote monitoring:  
Input-supply failed, charging-level, sleeping mode
- High storage capacity, safeguard against total discharge
- Overload and open circuit protected, short circuit proof
- Vibration proof, suitable for the tropics epoxy resin casted
- Conforms to EMC and low voltage directive
- Extra low safety potential PELV (EN 60204), SELV (EN 62368)
- Safety acc. to VDE, EN, UL, CSA

### Application

The LDR 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.

During mains operation the internal switch mode power supply supplies the DC-consumer and simultaneously charges the accumulators with optimal loading techniques. Thereby the output voltage follows the accumulator voltage.

During mains operation and emergency operation an output current of 8.0 Amp. can be obtained permanently. Temporary the output current can exceed the nominal current up to 20%. The output is short circuit proof and protected against polarity reversal.

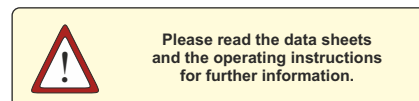
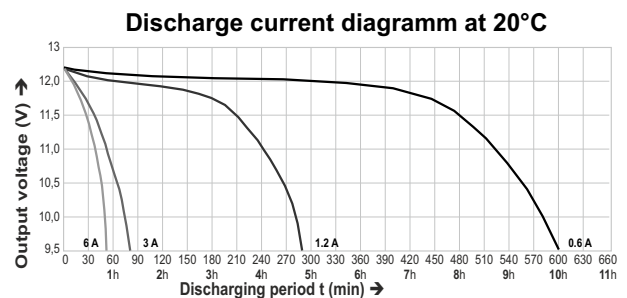
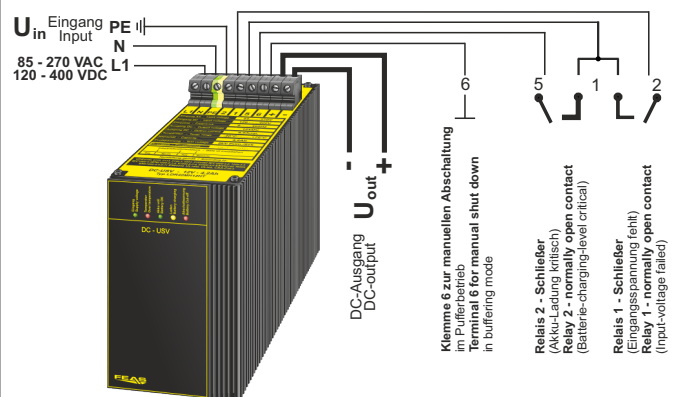
### Operational principle

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

After a power failure and the return of the line voltage afterwards the maximal output current is available immediately. 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 or on DIN-rail.



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