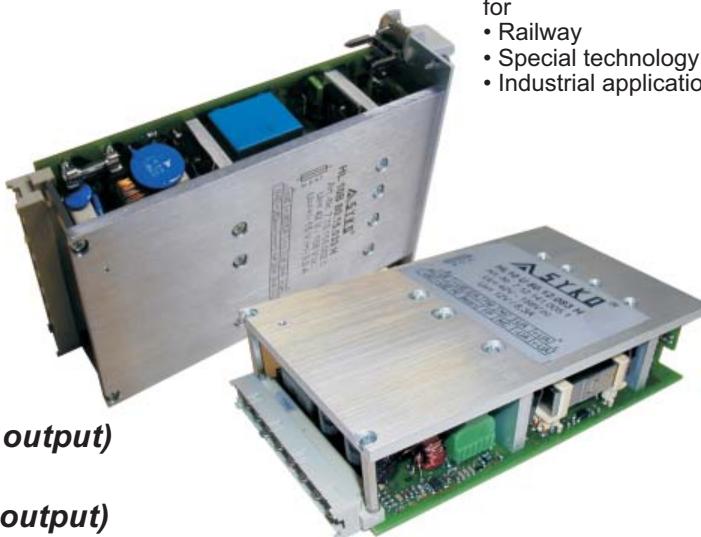


- **Euro card 3U / 9TE**
- **3U-9TE front panel (Option)**
- **Reset signal (output)**
- **Over voltage protection (Thyristor)**
- **Input noise suppression EN 55022.A**
- **Output spike filter C-L²-C**
- **Wide input voltage range**
- **Shock/vibration acc. to EN 50155**
- **CE-conformity**



® registered trademark of company SYKO GmbH & Co. KG

Series **HL10.U** (single output) **HL10.B** (double output)

Main points:

Output:

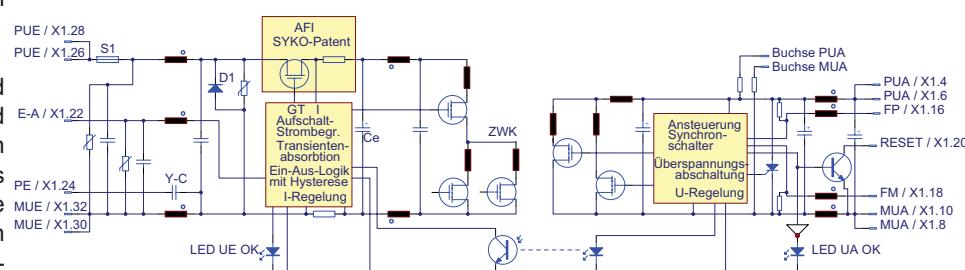
- Regulation $\Sigma (U_{in} + I_{out} \cdot T_U) < \pm 2\%$
- Accuracy absolute $\pm 1\%$
- Ripple over T_U
 - $I_{out} > 100 \text{ mA}$ $< 20 \text{ mV}_{pp}$
 - $I_{out} < 100 \text{ mA}$ $< 100 \text{ mV}_{pp}$
- Spikes $< 100 \text{ mV}_{pp}$ (T 1:1/50MHz)
- Response time $\Delta I = 50\% \leq 2 \text{ ms}$
- Constant current limitation $< 1,2 I_{o_{max}}$
- Output spike filter (C - L² - C)
- No-load, over load, short circuit proof
- Reset 0,9 U_{out} (Open Collector)

| Uin | Pout | Uout | Iout | Model number |
|--|------------|-------------------|-----------|-------------------|
| V | W | V | A | |
| 16,8 - 34 | 60 | 5,1 | 12,0 | HL10.U24.05.120 |
| 50V / 50ms | 80 | 12 | 6,6 | HL10.U24.12.066 |
| 70V / 2ms | | 15 | 5,3 | HL10.U24.15.053 |
| | | 24 | 3,3 | HL10.U24.24.033 |
| | | 48 | 1,7 | HL10.U24.48.017 |
| | | ± 12 | $\pm 3,3$ | HL10.B24.12.033 |
| | | ± 15 | $\pm 2,6$ | HL10.B24.15.026 |
| | | ± 24 | $\pm 1,7$ | HL10.B24.24.017 |
| 14,4 - 52 | 60 | 5,1 | 12,0 | HL10.U30.05.120 |
| surge proof | 100 | 12 | 8,3 | HL10.U30.12.083 |
| 1kV / 2Ω | | 15 | 6,6 | HL10.U30.15.066 |
| 1,8kV / 5Ω | | 24 | 4,2 | HL10.U30.24.042 |
| | | 48 | 2,1 | HL10.U30.48.021 |
| | | ± 12 | $\pm 4,2$ | HL10.B30.12.042 |
| | | ± 15 | $\pm 3,3$ | HL10.B30.15.033 |
| | | ± 24 | $\pm 2,1$ | HL10.B30.24.021 |
| 40 - 154 | 60 | 5,1 | 12,0 | HL10.U80.05.120 |
| surge proof | 100 | 12 | 8,3 | HL10.U80.12.083 |
| 1kV / 2Ω | | 15 | 6,6 | HL10.U80.15.066 |
| 1,8kV / 5Ω | | 24 | 4,2 | HL10.U80.24.042 |
| | | 48 | 2,1 | HL10.U80.48.021 |
| | | ± 12 | $\pm 4,2$ | HL10.B80.12.042 |
| | | ± 15 | $\pm 3,3$ | HL10.B80.15.033 |
| | | ± 24 | $\pm 2,1$ | HL10.B80.24.021 |
| Version H | | -40°C up to +85°C | | additional charge |
| Option: voltages 36V / 60V / 110V / ±30V | | | | on request |
| Modification costs of possible changes above values: | | | | on request |

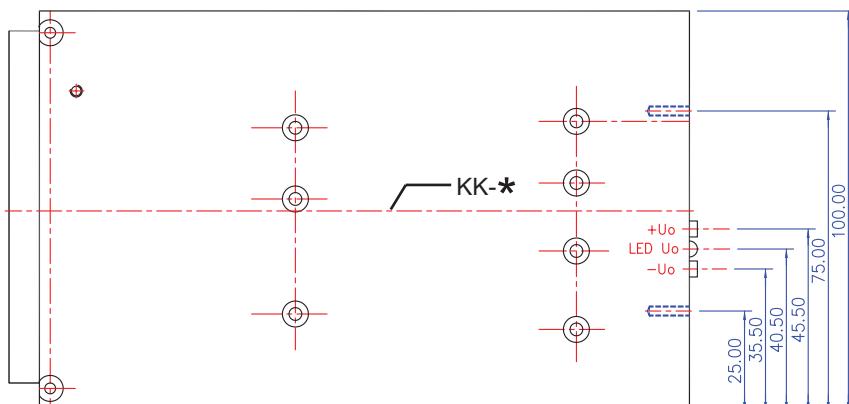
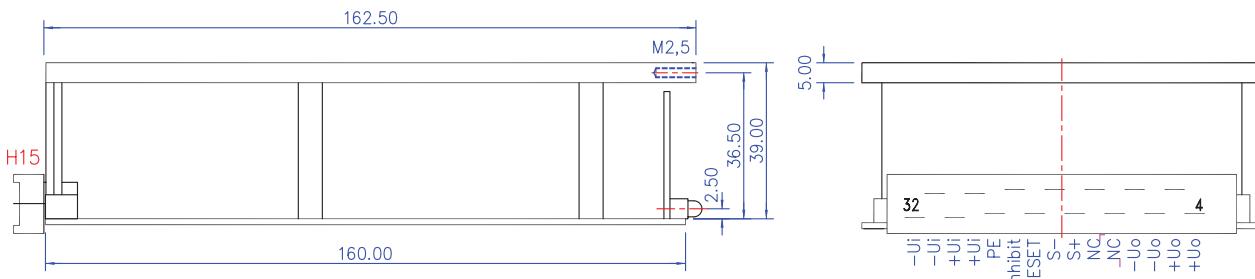
The **HL10.U** series with an output power up to 100 Watt is designed for mobile applications and high operational reliability.

Inrush currents are limited and long term transients are absorbed with the used SYKO-Patent of an active filter. The converter works with low input capacity and the chopping capacitors are chosen as high current capable capacitors. The clever mechanical build up allows the heat conduction to the face heat sink. The direct chassis mounting is possible with very good heat transmission over the extended flange heat sink. The converter is equipped with an under voltage monitoring function with amplitude- and time hysteresis. The integral switch on current limitation is done with an internal power limitation.

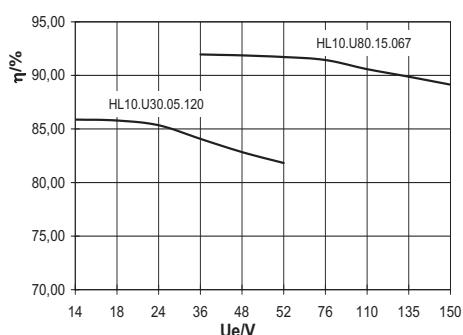
The functionality is secured in the whole operational range up to limit values based on the chosen components, filters, security circuits, dynamical and statically current limitation and over voltage protection.



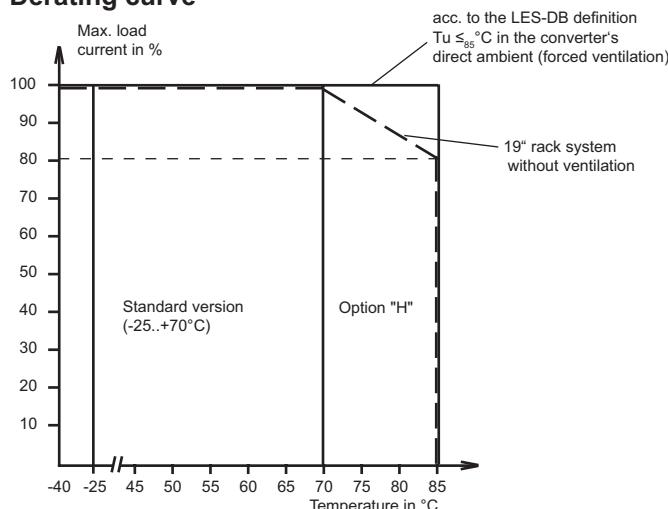
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Efficiency



Derating curve



Measurement of radio interference

