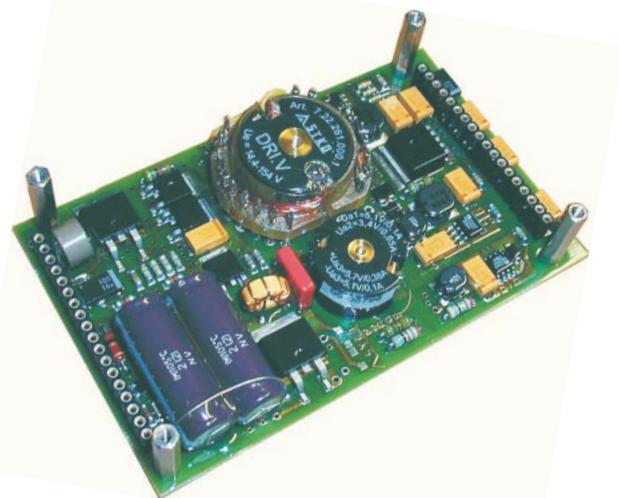


- **Input voltage range > 10:1**
- **PCB-mountable**
- **Distant bolts for screw-mounting**
- **Open build-up (for thermal stress)**
- **Over voltage protection (Logic)**
- **Input current filter C-L-C**
- **Output spike filter C-L<sup>2</sup>-C**
- **-40/+85°C (Option)**
- **Dyn. und stat. short circuit proof**

for Railway applications, Automotive applications, Special technology

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## Series DRI-V

### Main Points:

#### Output:

- Accuracy absolute  $\pm 1\%$
- Regulation factor  $\Sigma(U_{in} + I_{out} \cdot T_U) < \pm 1,5\%$
- Ripple < 2 mV<sub>rms</sub> (const. over  $T_U$ )
- Spikes < 60 mV<sub>pp</sub> ( $T 1:1/50MHz$ )
- Response time  $\Delta I = 50\% \leq 50 \mu s$
- Current limiting < 1,2 I<sub>outmax</sub>
- No intercircuit interference
- No-load-, over-load-, short circuit proof
- Outputs isolated

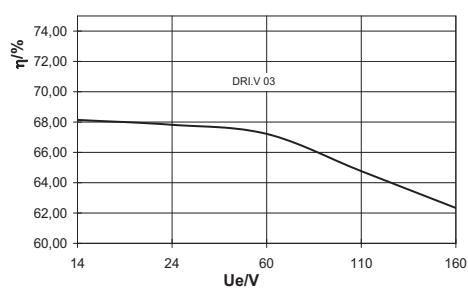
#### Input:

- No-load power 1,2 Watt
- ON-OFF-application (E·A)
- Input current filter C - L - C (external)
- Chopper capacitors for I<sub>rms</sub> at  $T_{Umax}$
- On-load current limiting
- Do not use without application circuit
- Noise suppression (see application)

#### General:

- Over voltage protection
- Isolation test voltage 1,5kV<sub>AC</sub> 1 Min.
- Ambient temperature -25°C / +70°C, Option H: -40°C / +85°C
- Derating 1,5%/°C >60°C
- Convection cooled
- MTBF On request
- Shock/vibration see annex V
- Weight approx. 100 g
- Dimension 99 x 61 x 24,5 mm<sup>3</sup>

#### Efficiency:



The **DRI.V** series has been designed for the universal use in railway / rolling stock applications.

The input voltage range of 14.4 - 158V /190 V dyn. allows the universal supply of all battery-networks from 24V up to 110V with the logistic advance, not necessarily having to ask what input voltage is available.

The switching circuit concept generates the needed outputs voltages without crosswise load interference and realises an optimum noise suppression for the complete system (application).

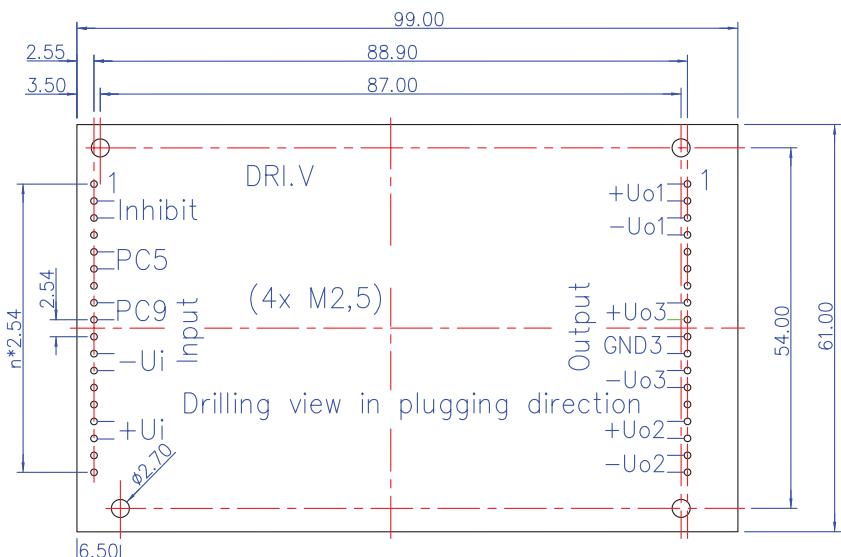
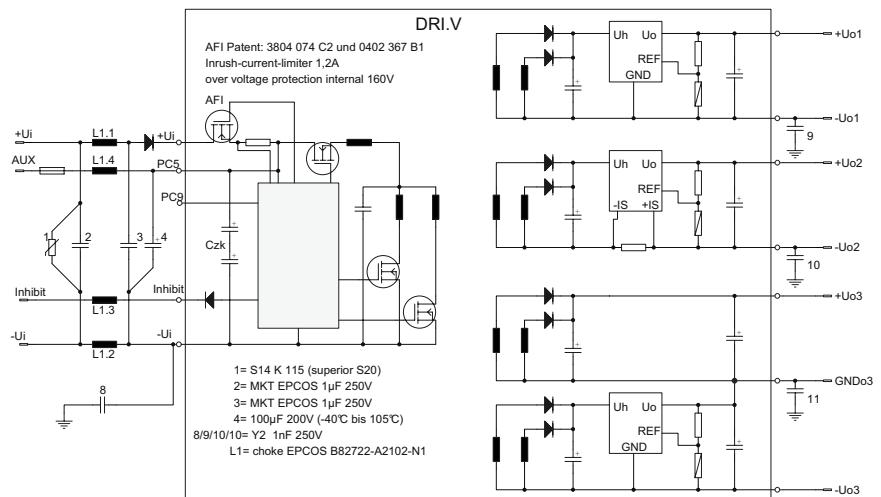
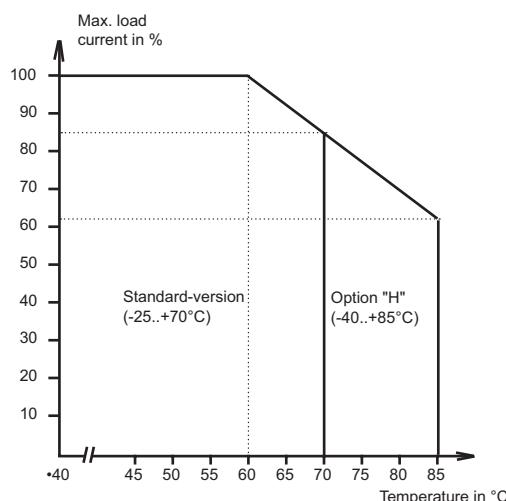
The open build-up guarantees a high level of functionality security. Four distant bolts are optimal for the use in high shock/vibration applied applications.

A patented circuit from SYKO limits the inrush current to Czk. This prevents the fuse's early aging and limits over voltages. On the additional pin C9 the converter can be switched on delayed (necessary to charge Czk) and the additional storage time-capacitor C4 will be charged high resistive over R6. Over D7 this capacitor gives the hold-up-energy in accordance to the standard EN 50155 S2 from the minimum input voltage.

An inhibit function (ON-OFF) is existing as a converter's remote control. Outputs, which are used outside the system (Uout3) should be filtered and protected (see application).

A transient free AUX-voltage can be put at your disposal optionally.

### Derating-curve



### Measurement of radio interference

