



BRIEF INFORMATION

DC/DC voltage stabiliser

- For 12 V systems
- Output power 200–400 W
- System stabiliser with temporary voltage drop



PRODUCT FEATURES

The DC/DC converter is also referred to as the voltage stabiliser. In the event of a temporary voltage drop (when engine starts), it maintains the output voltage to the electric sub-system (e.g. with start/stop system).

Essentially this relates to the elements on the vehicle electric system that are visible to the driver and are not safety-critical. This includes for example, the radio and navigation (infotainment systems) as well as various terminals (e.g. for agricultural and construction machinery) and information systems (e.g. in buses).

TECHNICAL DETAILS

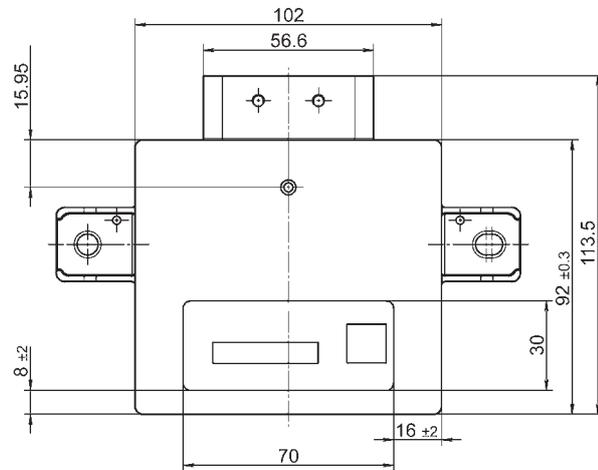
Technical specifications

| | |
|------------------------------|--|
| Ambient temperature | -40°C to +85°C |
| Cooling | Convection |
| Weight | approx. 250 g |
| Input voltage* | +6.0 V to 18 V |
| Stabilisation range* | +6.0 V to +12 V _{Stabilization} |
| Output voltage* (Boost mode) | 12 V _{±0,5 V} |
| Ripple | < 200 mV |
| Output current (Boost) | 17 A |
| Output current (Bypass) | 35 A |
| Output power | 200 W** |
| Performance | > 85 % |

* Other configurations and 24 V version available on request

** 400 W variants available on request

Technical drawing



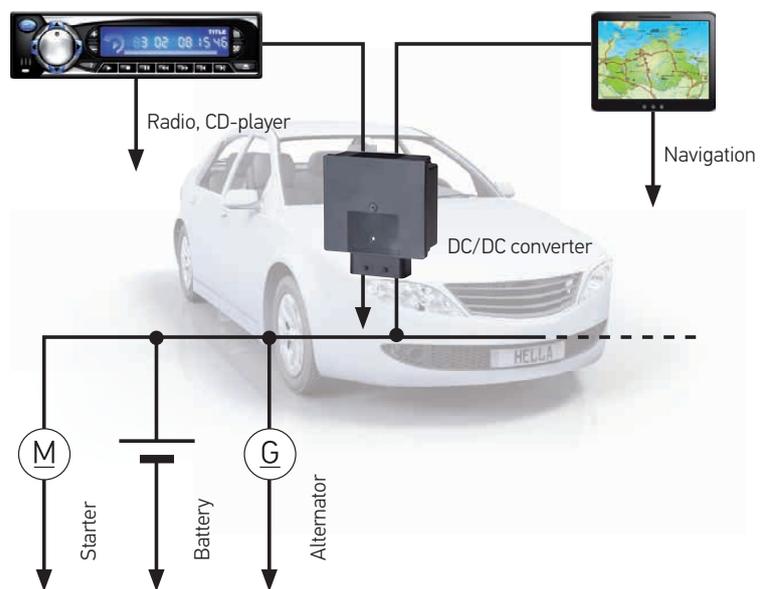
HOW IT WORKS

The voltage stabilizer is logically connected between the voltage supply of the on-board vehicle electrical system and the electrical subsystem to be stabilized. Stabilization is activated as soon as start information from the starter (terminal 50) is available. Stabilization (boost mode) is limited to 5 seconds.

The voltage stabiliser is activated by the ignition. As long as stabilisation is not required, the sub-system of the vehicle electric system is coupled with the main system via a low-ohm cable.

The start signal indicates the voltage drop when the engine starts. As a result the sub-system and the mains are disconnected from each other and the stabilization is carried out.

The device can also be equipped with a LIN diagnostic interface (optional).



RANGE OVERVIEW

| Product image | Description | Part number |
|---------------|--------------------------|-------------|
| | DC/DC voltage stabiliser | On request |