



FlexSupply-S

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BENEFITS

- Extremely high efficiency > 95%
- Variable output voltage back / boost
- Robust aluminum casing

DC/DC CONVERTER WITH VARIABLE OUTPUT VOLTAGE

The FlexSupply-S was designed especially for supplying measurement technology in test vehicles. Supply voltages drops caused by e.g. over-long lines to measurement technology components or the start-up process are effectively compensated.

At the same time, suitable countermeasures have been established to safeguard the circuit against inductive as well as generator voltage transients that can occur due to switched inductive loads. In this switching power supply based on synchronized technology, the output voltage can be variably adjusted from 10V and 24V via a trimmer (on-board) or an external potentiometer, depending on the variation. The module works with an input voltage of 6V to 28V. To warrant the input inverse-polarity protection, the module is safeguarded with an external 25A fuse.

Optionally, the DC/DC Converter can also be loaded with a load-dump protection. Further special variations are available on demand.

FlexSupply-S

ORDER NUMBER

- 70006512

APPLICATIONS

- Supply of measurement technology in test benches or test carrier that has to work independently from voltage drops.
- 24 V supply in 12 V on-board networks
- Voltage supply of vehicle components in test vehicles
- Local voltage buffering

SCOPE OF SUPPLY

- FlexSupply-S (device)

OPTIONAL

- Customer-specific plug connectors and adapter cables

CHARACTERISTICS

- Input voltage can be both higher or lower than the output voltage
- Transient protection
- Inverse-polarity protection (25 A fuse)
- Based on synchronized technology
- Automatic buck/boost switch
- Easy integration into the application

TECHNICAL DATA

	FlexSupply-S
Input voltage	6 to 28 VDC
Output voltage	10 to 24 VDC (adjustable)
Output power	80 W 160 W possible short-term
Efficiency	> 95 % (typ. 96 %) (Input voltage > 10 V)
Operating temperature	-40 °C ... +60 °C (80 W Output) -40 °C ... +70 °C (40 W Output)
Input and output ripple	< 100 mV (peak - peak)
Dimensions	104 x 105 x 38 mm