

Buck-boost DC-DC Converter

Features

- U in - min/max 36... 160 V
- U out - 48V (24V)
- I out - 0...1,2 A
- Operation Temperature Range
T ambient -65°C +90°C
- Storage Temperature range
T -65°C +90°C
- Efficiency up to 95%
- Output Power P max - 60 W

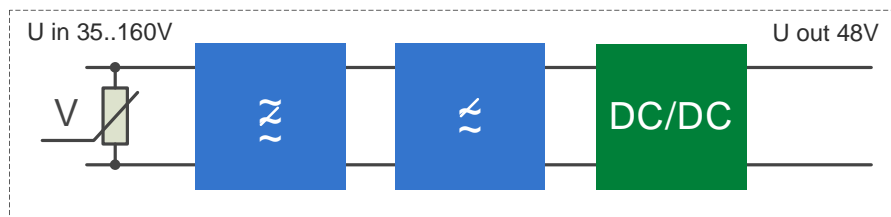


Figure 1. DC-DC Converter Block Diagram

Overview

The Buck-Boost DC-DC converter is designed to be operated in severe industrial conditions with wide temperature and input supply voltage ranges (railway transport).

The key feature of the DC-DC converter is its extended input voltage range from 35V to 160V with output power of up to 60W.

The input protection and filter circuits ensure reliable operation of the power source under severe pulse noise and voltage surges with an amplitude of up to 1000V at the power input.

Specially selected high-quality components allowed to create a uniquely wide operating temperature range that allows to operate the converter practically in all climatic zones.

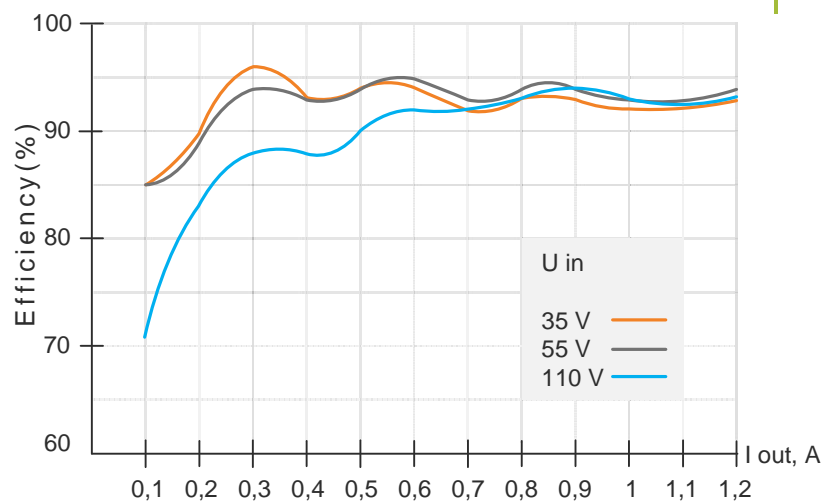
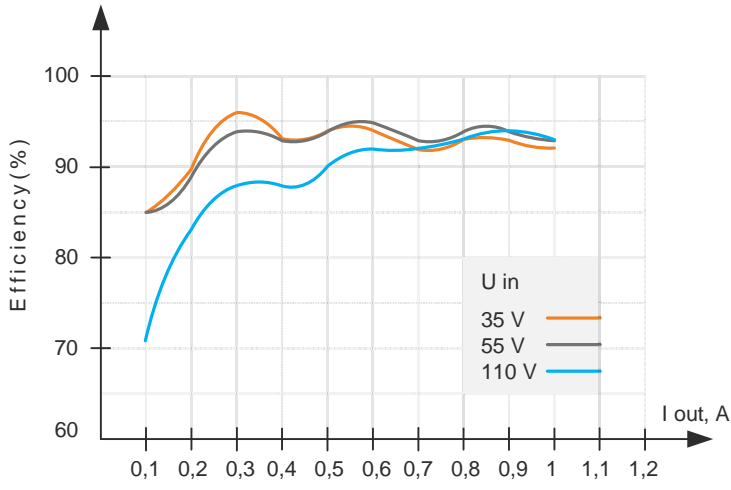
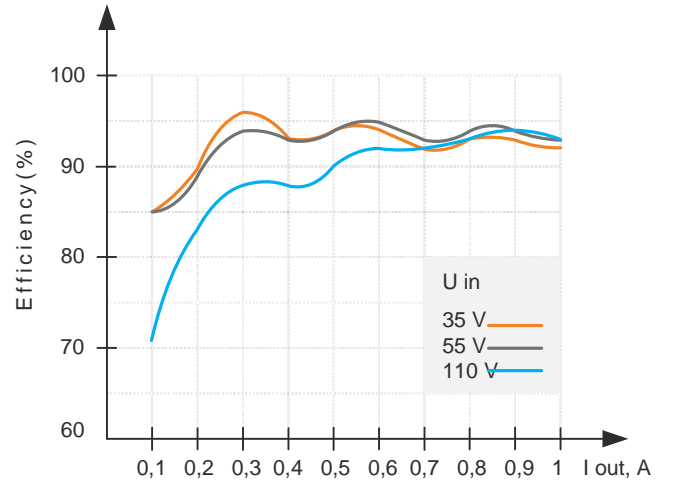


Figure 2. U out = 48V



Pic1. U out = 50V



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