



DC-Transformer 300-Serie

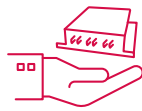
344-24-SD

50W, isolated DC/DC buck-boost converter

«Designed in Switzerland, made in Germany, proven in the World»



90x90x19mm



230g



50W



SPECIFICATIONS

ultra wide input voltage range	22...160VDC
Max. input peak voltage	170 VDC
efficiency	96% (nominal load)
Output voltage / output power	24.0 VDC / 50 watts
Typical max. output current	2.0 ADC
Extrem high specific power per weight (gravimetry)	0.2 watts/gramm
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DC-TRANSFORMER 344-24-SD

The converter 344-24-SD is a universal member of our 300 series. Galvanic isolation is realized with the push-pull stage principle. Further features of this DC transformer are the soft start, the input undervoltage switch-off and the permanent no-load safety and short circuit protection. The soft start limits the input current and prevents inrush current peaks during startup. Since the output current and the output voltage are constantly regulated in this DC-DC converter, the DC / DC converter supplies a constant short-circuit current in case of overload. This outstanding feature gives the converter a unique power control, making it ideal for battery charging applications. When the overload or short circuit is removed, the converter returns to normal voltage regulation mode and provides the full specified output power over the entire temperature range.

FEATURES

- ◇ isolated DC/DC buck-boost converter
- ◇ robust and climate proof design
- ◇ excellent thermal characteristics
- ◇ permanently no-load and short-circuit proof
- ◇ integrated EMI input and output filter
- ◇ no power derating
- ◇ for ambient temperatures between -40°C / +85°C
- ◇ thermal shutdown at +90°C
- ◇ CC/CV charging characteristic



Please check technical Datasheet for further information on www.demke-electronic.com