



DC-Transformer 100-Serie

142E-13.8-SD

200W, non-isolated DC/DC buck converter

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



77x52x19mm



166g



200W



SPECIFICATIONS

ultra wide input voltage range	16...70VDC
Max. input peak voltage	75 VDC
efficiency	96% (nominal load)
Output voltage / output power	13.8 VDC / 200 watts
Typical max. output current	15.0 ADC
Extrem high specific power per weight (gravimetry)	1.2 watts/gramm
EMC-type-test	<input checked="" type="checkbox"/>

DC-TRANSFORMER 142E-13.8-SD

DC/DC step-down converter for 24VDC, 48VDC and 57VDC grids with CC-CV charging characteristics.

This Demke converter is optimised for 48V low-voltage networks and can be supplied by 57V Li-Ion battery systems with sufficient reserves. The still very high output current or short-circuit current of 15A is designed for 12V consumer and 13.8V battery charging applications. The flat and compact design with a specific power of 1.25Watt/gram is ideal for space-critical applications.

[News article](#) available.

FEATURES

- ◇ non-isolated DC/DC buck 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