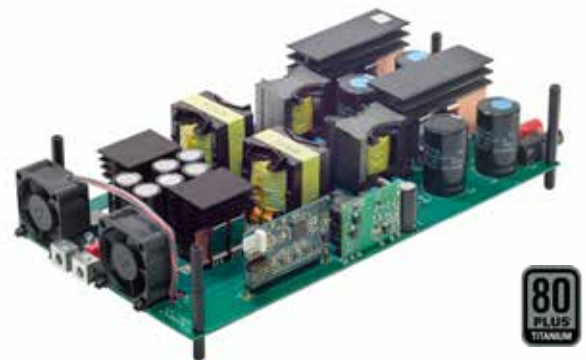


3000W DUALSTAGE LLC CONVERTER

This 3kW DC/DC converter for telecom power supplies uses two parallel LLC stages and an innovative control concept powered by Infineon's XMC4400 microcontroller to achieve maximum partial and peak load efficiency. The smart control also ensures very high robustness by preventing critical LLC operating states like hard commutation or capacitive mode under all load conditions.



- ▼ Better than 80 PLUS Titanium
- ▼ Precise output regulation
- ▼ Very high robustness
- ▼ Compact design



Main features

- ▼ Dual-Stage LLC for outstanding peak and partial load efficiency
- ▼ Digital control with extended protection and control functions
- ▼ Prevention of hard commutation and capacitive mode
- ▼ Adaptive primary dead time and fast transient response
- ▼ Compact design with high power density

Technical Data

Input voltage range	350...410 VDC
Output voltage	44...58 VDC
Output voltage ripple	Max. 300 mVpp
Transient response	+/- 2.72V
Nominal output power	3000 W
Max. output current	55 A
Max. efficiency	98,4%@ 1500 W 97,6%@ 3000 W
Dimensions	250x15x60 mm