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Important Announcement - Operation of AC-DC power supplies from a DC input

Embedded AC-DC power supplies are very often specified with an additional DC input rating. Commonly the UL60950-1 safety certification relating to the product is valid for AC input only (since the internal fuse is usually only AC rated) and customers should take the necessary safety compliance steps as part of their system integration. Normally DC rated fuses or fuses rated for both AC-DC and DC-DC operation are required for UL60950-1 approval with DC input.

Currently the Alpha (CA), EFE, NV and Sirius (CS) ranges of TDK-Lambda AC-DC power supplies have been certified by UL for DC operation with only an internal AC rated fuse, accompanied by evidence of additional testing under fault conditions with AC and DC voltages, both abnormal and normal conditions.

However, UL is withdrawing this acceptance condition with effect from 10th July 2014. Other approval bodies (IEC, EN) still accept the conditions stated above.

Customers using the above products with DC input within UL certified equipment should contact their local TDK-Lambda Sales Office for advice regarding ongoing compliance.

Please note that UL has advised that fitting an external DC rated fuse in addition to the internal AC rated fuse is not acceptable, as the power supply will still be primarily protected by an AC rated fuse

A handwritten signature in black ink, appearing to read 'DNorton', written in a cursive style.

David Norton
VP of Marketing and Technical Support