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Title: Solar inverter auxiliary power supply solution

Generated on: 2026-04-06 04:37:31

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This document discusses the design of an auxiliary power supply for solar micro inverters using the LMR38020 Fly-Buck(TM) topology, which offers advantages over traditional Flyback designs.

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L6566BH has embedded 840V HV start-up. The total applicable voltage considering the 20% margin and using STN1HMK60 (600V) is ~1200V. K5 shows avalanche energy dissipation ...

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A 1.7 kV SiC MOSFET is an excellent choice for using a single-switch flyback topology in an auxiliary

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power supply application that requires a wide input voltage range. The 1.7 kV ...

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