

60V power supply inverter production





Overview

How do you power up a power supply?

To power up the supply, the input voltage must be greater than the minimum required voltage for the device (4.7V). After the output is in regulation the device is referenced to the negative output and a much lower input voltage is needed to turn the supply off.

What is the maximum output current supported by tps54061?

Assuming the minimum current limit is 250mA and the ILripple is 50% of the minimum current limit ($IL_{ripple} = 0.5 \times I_{cl}(min)$), the estimated maximum output current supported by the TPS54061 is 100mA which satisfies the design requirements of Table 1. The inductor current ripple impacts the maximum output current.

What is the inductor saturation current of tps54061?

Conservative designs use the $I_{cl}(typ)$ as the inductor saturation current to account for any transients. $I_{cl}(typ)$ of the TPS54061 is 350mA. The inductor rms current rating must be greater than 127mA calculated in Equation 12. The selected inductor is the WE 744777233 with 450mA saturation current rating, 390mA rms current rating and 1.15Ω DCR.



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This inverter power supply can be used for home lighting in the event of power failure, fluorescent lamps for electronic ballasts, household appliances for switching power supplies, etc.

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Introduction of power inverter 1. This inverter power supply adopts SPWM technology controlled by MCU micro-processing, pure sine wave output, ...



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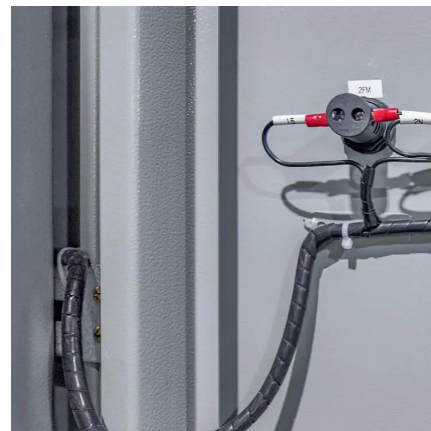


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