Use viper12a as inverter

What is a viper12a SMPS controller IC? The VIPER12A stands as a comprehensive SMPS controller IC featuring an integrated PWM controller paired with a potent power MOSFET on a single silicon chip. This ...

This article describes the use of the VIPer12A-E and the VIPer22A-E which are pin for pin compatible and can supply power for many applications. This paper provides an off line, non isolated power supply evaluation ...

For more detailed instructions on using this IC, you can look at the VIPER12A Application Notes. This IC is mainly used as a buck regulator, designed to deliver output voltages of either 5V or 12V, and it can handle ...

Four different examples are covered. The VIPer12A-E is used for 12 V at 200 mA and 16 V at 200 mA. The VIPer22A-E is used for 12 V at 350 mA and 16 V at 350 mA. The same board can be used for any output ...

This application note describes a low power, (output power of 4.1W) general purpose adapter which is able to handle a wide range input voltages (88VAC to 265VAC).

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R2 and C3 form the snubber circuit needed to reduce the leakage spike and voltage ringing on the drain pin of VIPer12A. The output voltage is regulated with a TL431 (U3) via an optocoupler (U2) to the feedback pin.

It demonstrates a regulation setup employing a TSM101-driven optocoupler with dual operational amplifiers and a voltage reference. This configuration enables precise control of both output voltage and current.

In this paper a detailed analysis of VIPer12A in non isolated applications is performed, exploiting the main features of such a device, in Buck and Buck-boost configuration.

The regulation feedback is connected to "V out1" as well as the supply circuit of the Viper12A. Doing so, only one high voltage diode and one capacitor are needed, i.e. D3 and C3 in Fig. 17, reducing the complexity and ...

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