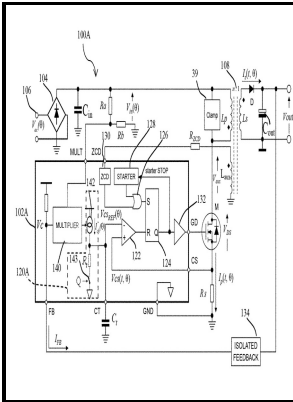


Control and modelling of quasi-resonant converters.

- - Using quasi



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Using quasi

Output power level and peak switching currents may help determine the optimum operating mode. Figure 1 shows a step-up circuit and Figure 2 shows a step-down circuit. But, as mentioned earlier, valley switching controllers can be used in a design that achieves QR mode at the minimum line and maximum load operating point.

Understanding the Basics of a Flyback Converter

Texas Instruments has a selection of controllers that support discontinuous flybacks, such as the UC2842 family of devices, the UCC28C40 family, and the UCC2800 family, and the LM5021.

Understanding the Basics of a Flyback Converter

The dynamic range of the gain may be improved by increasing the leakage inductance with respect to the magnetizing inductance.

Dynamic modelling and control of resonant switch mode converters

System of systems SoS is another concept involving large scale integration of various systems. CCM converters will pass through into DCM at very light loads. QR controllers will decrease the switching frequency as the load increases.

Dynamic modelling and control of resonant switch mode converters

The IC includes also a disable function, an on-chip filter on current sense, an error amplifier with a precise reference voltage for primary regulation and an effective two-level overcurrent protection. Basic topology Figure 2 shows the circuit and block diagrams for the quasi-resonant, and LLC resonant converters, respectively. When the converter operates in the discontinuous conduction mode DCM, the first term of the switch losses drops to zero, as the drain current drops to zero.

Using quasi

Thanks to the transformer, input to output isolation is possible. The quasi-resonant converter circuit diagram looks very similar to that of a flyback converter, except that there is a detection circuit to help determine the timing of the voltage minima.

PI Control of Quasi

This is sometimes referred to as a ramp on a step.

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