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## Quasi-Resonant Flyback Converter Universal Off-Line Input

Quasi-Resonant Flyback Converter Universal Off-Line Input 65-W EVM  
The UCC28600 evaluation module, (UCC28600EVM-65 W), is a 65-W off-line quasi-resonant flyback converter providing an 18-V regulated output at 3.6 A of load current, operating from a universal ac input between 85 VAC and 265 VAC with a frequency range of 47 Hz to 63 Hz. The EVM uses the UCC28600

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Quasi-Resonant Flyback Converter Universal Off-Line Input

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Description The PMP10150 reference design uses the UCC28600 quasi-resonant flyback

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Controller to generate a 12V and a -8.5V output from an universal AC input. An optocoupler is used to regulate the 12V output.

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Universal AC Input, Dual 12V, -8.5V Output Quasi-Resonant ...  
The UCC28600 evaluation module (UCC28600EVM-65W) is a 65 W off-line quasi-resonant flyback converter providing an 18 V regulated output at 3.6 A of load current, operating from a universal ac input between 85 Vac and 265 Vac with a frequency range of 47 Hz to 63 Hz. The EVM uses the UCC28600 quasi-resonant (...)

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UCC28600 data sheet, product

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information and support | TI.com  
SMPS Design Extends Universal Input to 690 Vac. A quasi-resonant flyback converter uses high-voltage emitter-switched bipolar transistors to achieve the wide inputvoltage range needed to power digital electric-energy meters in both residential and industrial applications.

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SMPS Design Extends Universal Input to 690 Vac | Power ...  
July 01, 2015 // By Florian Mueller.  
print reddit. A flyback converter is very attractive in that it is typically the least expensive isolated topology because it uses the fewest number of components. For offline flyback designs a quasi-resonant (QR)

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Controller achieves the best efficiency and the best EMI behavior.

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Two-switch-quasi-resonant Flyback converter

If the quasi-resonant flyback converter has a turns ratio of 20, and an output voltage of 5 volts, VRO will be 100 volts. So for a bus voltage of 375 volts, the switch will turn on at 275 volts. If the effective output capacitance, COSSeff, is 73 pF, and the switching frequency, fSW, is 66 kHz, the power loss will be 0.18 watt, i.e., (Eq. 2).

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Using quasi-resonant and resonant converters | EE Times

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With an integrated active X-cap discharge feature and power savings mode, the NCP1339 can enable no-load power consumption below 10 mW for 65 W notebook adapters. The quasi-resonant current-mode flyback stage features a proprietary valley-lockout circuitry, ensuring stable valley switching.

---

## NCP1339: High Frequency Quasi-Resonant Controller

The flyback converter implements the new ST dedicated current mode L6566B (U2) controller operating in quasi-resonant mode and detecting the transformer demagnetization through the ZCD (#11) pin. R23 on the OSC (#13) pin sets the maximum switching

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19 V - 65 W quasi-resonant flyback adapter using L6566B ...  
In its various implementations including primary side and secondary side regulation, fixed switching frequency or quasi resonant operation, an isolated or non-isolated flyback topology is most often found in off-line converters for an output power ranging from a few watts up to 100 W.

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Flyback Converter Design, Block Diagrams - STMicroelectronics Document Dual-Switch-Quasi-Resonant-Flyback-Converter.pdf.pdf was not found.

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Evaluation/Development Tools:  
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ON Semiconductor

The result is that this converter is compliant to energy star eligibility criteria. The flyback stage implements the new ST dedicated current mode controller L6566B, operating in quasi-resonant mode and detecting the transformer demagnetization by pin ZCD. The resistor on pin OSC sets the maximum switching frequency at about 165 kHz.

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EVL6566B-65W-QR - 19 V - 65 W  
quasi resonant flyback ...

The UCC28600 evaluation module

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(UCC28600EVM-65W) is a 65 W off-line quasi-resonant flyback converter providing an 18 V regulated output at 3.6 A of load current, operating from a universal ac input between 85 Vac and 265 Vac with a frequency range of 47 Hz to 63 Hz.

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UCC28600EVM-65W Evaluation board | TI.com

Initially, the research was focused on the design and evaluation of a quasi resonant flyback converter using a multilayered coreless PCB step down transformer in the frequency range of 2.7 – 4MHz up to the power level of 10W.

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Flyback Converter | Products &

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Suppliers | Engineering360

Consider the resonant flyback converter discussed above including the resonant frequency of 100 kHz. Computations show the minimum switching frequency for full power at minimum line would be about 70 kHz. This swing in switching frequency computes to a change in the half period delay of less than 2.2  $\mu\text{sec}$ .

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Push pull resonant flyback switchmode power supply converter

Quasi-resonant and fixed-frequency flyback comparison  
ICE5xSxG and ICE5QSxG on 60W power supply Introduction 1  
Introduction For low output power applications, the flyback

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Converter is the most widely used topology when galvanic isolation and/or multiple output are required because it has a low system cost and is easy to design. It is used

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Quasi-resonant and fixed-frequency flyback comparison  
L6565 QUASI-RESONANT CONTROLLER A variable frequency version of flyback converter, commonly known as Quasi-resonant (QR) ZVS fly-back, is largely used in certain applications, such as SMPS for TV, though it is well suited for other applications too. This peculiar topology features several merits.

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AN1326 APPLICATION NOTE

st.com

Programmable output Constant  
Voltage - Constant Current  
(CVCC) Quasi-Resonant Flyback  
charger Universal Supply Source -  
12VAC / 12VDC to 300mA Boost  
Converter for MR16 / AR111 (7  
LEDs / 21V) Ap 400VDC Input to  
28V/9A Output Compact: High  
Efficiency CLL Resonant  
Converter Reference Design

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TL431AILP Texas Instruments -  
Voltage References ...

Parameters Control method  
Secondary-side regulation Duty  
cycle (Max) (%) 100 Frequency  
(Max) (kHz) 130 UVLO thresholds  
on/off (V) 12.8/7.5 Features Quasi-  
Resonant, SSR, Green Mode, Light

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Load Efficiency Operating temperature range (C)-40 to 125 Rating Catalog open-in-new Find other Flyback controllers Package | Pins | Size VSSOP (DGK) 8 15 mm<sup>2</sup> 3 x 4.9 open-in-new Find other Flyback controllers

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LM5023 data sheet, product information and support | TI.com  
L6565 is a current-mode primary controller IC, specially designed to build an offline quasi-resonant ZVS flyback converter. L6565 can offer line feed-forward to deliver constant power when the mains change, frequency foldback for optimum standby efficiency, pulse-by-pulse and hiccup- mode overcurrent protection.

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AN5287 Application note -  
STMicroelectronics

A method for reducing harmonic distortions and switching losses in a power factor correction circuit of a quasi-resonant voltage converter, wherein using data derived from the sensing a voltage impressed on the switching device in the power converter, a multitude of event times can be calculated that will align the timings of the drive circuitry of the power converter to those of the natural ...

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