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Green Mode

Ucc28610

Green Mode

Flyback

Controller

Rev G

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The

UCC28610EVM-474

evaluation module is a

25-W off-line

Discontinuous Mode

(DCM) flyback

converter providing 12

V at 2.1-A maximum

load current, operating

from a universal AC

input. The module is

controlled with the

UCC28610 Green-Mode

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which uses a cascoded
architecture that (...)

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**UCC28610 data
sheet, product
information and
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Description for the
UCC28610 The
UCC28610 brings a
new level of
performance and
reliability to the AC and
DC consumer power
supply solution. A PWM
modulation algorithm
varies both the

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Green Mode

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switching frequency and primary current while maintaining discontinuous or transition mode operation over the entire operating range.

**UCC28610D |
12-65W green-mode
Flyback power
supply ...**

Description for the UCC28610 The UCC28610 brings a new level of performance and

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Green Mode
Flyback Controller
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reliability to the AC and DC consumer power supply solution. A PWM modulation algorithm varies both the switching frequency and primary current while maintaining discontinuous or transition mode operation over the entire operating range.

**UCC28610D |
12-65W green-mode
Flyback power
supply ...**

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Green Mode
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Flyback Controller

2009-REVISED

SEPTEMBER 2015

UCC28610 Green-Mode
Flyback Controller 1

Features 3 Description

The UCC28610 brings a
new level of

performance 1•

Cascoded

Configuration Allows

Fully Integrated

Current Control

Without External Sense

Resistor and reliability

to the AC DC consumer

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power supply solution.

Flyback Controller

SLUS888G -JANUARY

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UCC28610 ...

Description for the

UCC28610 The

UCC28610 brings a

new level of

performance and

reliability to the AC and

DC consumer power

supply solution. A PWM

modulation algorithm

varies both the

switching frequency

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Green Mode

Flyback Controller

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and primary current while maintaining discontinuous or transition mode operation over the entire operating range.

UCC28610P | 12-65W green-mode Flyback power supply ...

The FB current commands the UCC28610 to operate the converter in one of three modes:

Frequency Modulation (FM) mode, Amplitude

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Green Mode
Flyback Controller
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Modulation (AM) mode,
and Green Mode (GM).

The converter operates
in FM mode with a
large power load (23%
to 100% the peak
regulated power).

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datasheet(20/39

Pages) TI | GREEN-

MODE FLYBACK ...

UCC28610 Green-Mode
Flyback Controller .

General Description:

The UCC28610 brings a
new level of

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Green Mode

Flyback Controller

Rev G

performance and reliability to the AC/DC consumer power supply solution. A PWM modulation algorithm varies both the switching frequency and primary current while maintaining discontinuous or transition mode operation over the entire operating range.

UCC28610 Green-Mode Flyback Controller

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MODEFLYBACK

CONTROLLER Check for

Samples: UCC28610

1FEATURES

APPLICATIONS •

Cascoded

Configuration Allows

Fully • Universal Input

AC/DC Adapters, 12 W

to 65 W Integrated

Current Control

Without External •

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Green Mode

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Auxillary

**UCC28610 Green-
Mode Flyback
Controller (Rev. D)**

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integrated circuits,

diodes, triacs, and

other semiconductors.

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Texas Instruments

Electronic

Manufacturer: Part no:

Datasheet: Electronics

Description: Texas

Instruments:

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[datasheet] Green-Mode

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datasheet] GREEN-

MODE FLYBACK

CONTROLLER

UCC28610D [Old

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Green-Mode Flyback

Controller UCC28610P

[Old version datasheet]

GREEN-MODE FLYBACK

CONTROLLER

UCC28610DR [Old

version datasheet]

GREEN-MODE FLYBACK

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UCC28610 Controller **Datasheet, PDF -** **Alldatasheet**

The UCC28610 will always enter a latched-off state if it detects an OV condition. The VDD supply must cycle below the fault reset threshold to re-start in order to recover.

UCC28610 **datasheet(28/39** **Pages) TI | GREEN-** **MODE FLYBACK ...**

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in Discontinuous

Conduction Mode

(DCM) is especially

attractive because it

eliminates reverse

recovery losses in the

output rectifier and it

simplifies control. The

UCC28610 is a flyback

controller for 12-W to

65-W, peak AC/DC

power supply

applications that

require both low AC line

power during no-load

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operation and high
average efficiency.

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MODE FLYBACK ...

5 x UCC28610DR

28610 Green-Mode

Flyback Controller

UCC28610 SOP-8.

\$5.63 + \$2.50 shipping

. 5PCS 6756ML

FAN6756ML

FAN6756MLMYB PWM

Controller

FAN6756MLMY SOP8

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Rev G

#K1995. \$4.13. Free shipping. 5PCS
IR1167ASTRPBF
IR1167A SOP-8
SMARTRECTIFIERTM
CONTROL IC #K1995.
\$4.30. Free shipping .

**5PCS UCC28610DR
28610 Green-Mode
Flyback Controller ...**

The UCC28610 reacts with the programmed overload response if the overload lasts longer than t_{OL} (nominally 250 ms).

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The overload fault responses are either (1) latch-off or (2) shutdown/retry after a retry delay of 750 ms.

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datasheet(26/39
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MODE FLYBACK ...
less than the control loop time constant can be averaged over the control loop time constant. The minimum switching period is when the

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Green Mode

Flyback Controller

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converter is operating
in the Frequency
Modulation (FM) mode,
referred to as t S(HF) .

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datasheet(14/39

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MODE FLYBACK ...**

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GTI | GREEN-MODE

FLYBACK ... UCC28610

Green-Mode Flyback

Controller . General

Description; The

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UCC28610 brings a new level of performance and reliability to the AC/DC consumer power supply solution. A PWM modulation algorithm varies both the switching frequency and primary current

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Mode Flyback
Controller Rev G**

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integrated circuits,
diodes, triacs, and
other semiconductors.

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description,

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datasheets ...

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Green-Mode
Flyback Controller

Green-Mode Flyback
Controller, DIP-8:

RoHS: YES: Lifecycle

Status: Active: Part

Type: Other

Semiconductors:

Product Family:

Analog: Base Part

Number: UCC28610:

EOL Date: 01/01/0001

00:00:00: Mfr. Cage

Code: TIS: Harmonized

Code: 8542.39.0001:

Product Category:

Other Semiconductors:

Package Description:

PDIP8; Pin Count: 8:

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Green Mode

Minimum Operating
Flyback Controller
Temperature (°C)-40

Rev G

Rochester

Electronics (en-US) :

Part UCC28610P

Texas Instruments' UCC28610 is used on the primary side and is a green mode Flyback controller with variable switching frequency in which every switching cycle immediately follows at least one zero crossing detected by the ZCD pin.

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Flyback Controller
Rev G

Copyright code: d41d8
cd98f00b204e9800998
ecf8427e.