85VAC-265VAC Input, 13.7V/17W Output Green-Mode Flyback

(ACTIVE) PMP6583

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Description

The PMP6583 reference design uses the UCC28600 green-mode controller to generate a 13.7V/17W regulated output. The quasi-resonant switching of the UCC28600 allows this low-cost design to achieve a maximum load efficiency is over 85%, while the no load losses are less than 250mW.

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Top view

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP6583
Vin (Min) (V)	85
Vin (Max) (V)	265
Vout (Nom) (V)	13.7
Iout (Max) (A)	1.25
Output Power	17.125
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- Quasi Resonant Flyback- DCM

TI Devices (1)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
UCC28600	8-Pin Quasi Resonant Flyback Green Mode Controller	AC/DC and Isolated DC/DC Power Supply	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
UCC28600	SOIC (D) | 8	Download	Download

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP6583 Test Results		PDF	1690	19 Sep 2011	15

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP6583 Gerber		ZIP	180	13 Jan 2012	9
PMP6583 PCB		PDF	54	13 Jan 2012	13
PMP6583 BOM		PDF	29	21 Sep 2011	18
PMP6583 Schematic		PDF	98	21 Sep 2011	17

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