85VAC-265VAC Input, 5W +/-15V & 5V Quasi-Resonant Flyback

(ACTIVE) PMP4017

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Description

This reference design uses the UCC28600 quasi-resonant flyback controller to generate a three outputs from a universal AC input source. The outputs provided are +15V/50mA, -15V/125mA, and 5V/350mA. The 5V output is regulated. The +/-15V outputs are generated from auxilliary windings on the power transformer and remain within 12% of their nominal voltages across all loading conditions.

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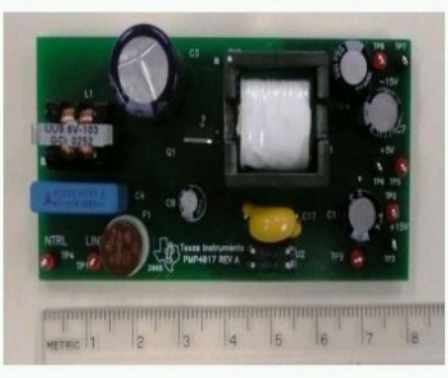

Top View

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

	PMP4017
Vin (Min) (V)	85
Vin (Max) (V)	265
Vout (Nom) (V)	5
Iout (Max) (A)	.35
Output Power	1.75
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- Quasi Resonant Flyback- DCM

TI Devices (1)

Order samples, get tools and find more information on the TI products in this reference design.

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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Step 1: Download and install the Ultra Librarian software ZIP: 62MB

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4017 Test Results		PDF	1150	12 Jun 2012	12

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4017 PCB		PDF	59	12 Jun 2012	11
PMP4017 Gerber		ZIP	110	12 Jun 2012	10
PMP4017 BOM		PDF	29	12 Jun 2012	13
PMP4017 Schematic		PDF	68	12 Jun 2012	21

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