85VAC-265VAC Input 12V/3A Quasi-Resonant Flyback With Synchronous Rectifiers

(ACTIVE) PMP6536

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Description

The PMP6536 reference design uses the UCC28610 quasi-resonant flyback controller in conjunction with the UCC24610 synchronous rectifier controller to provide good efficiency at heavy loads while maintaining low power consumption at light loads. The maximum load efficiency is over 86%, and the no load losses are less than 150mW when powered from US AC line voltage.

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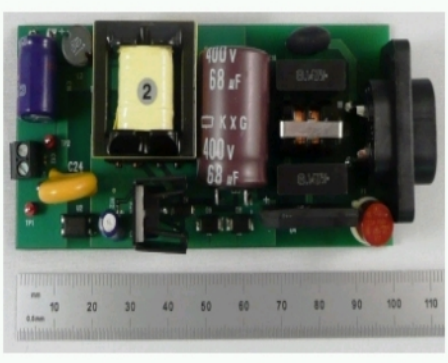

Top View

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

	PMP6536
Vin (Min) (V)	85
Vin (Max) (V)	265
Vout (Nom) (V)	12
Iout (Max) (A)	3
Output Power	36
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- Quasi Resonant Flyback- DCM Flyback- Synchronous

TI Devices (2)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
UCC24610	Secondary Side Synchronous Rectifier Controller	AC/DC and Isolated DC/DC Power Supply	Sample & Buy	View Design Kits & Evaluation Modules
UCC28610	12-65W Green-mode Flyback Power Supply 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)
UCC24610	SOIC (D) | 8	Download	Download
	VSON (DRB) | 8	Download	-
UCC28610	SOIC (D) | 8	Download	Download
	PDIP (P) | 8	Download	Download

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP6536 Test Results		PDF	1966	24 Aug 2011	32

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP6536 Schematic		PDF	81	24 Aug 2011	60
PMP6536 PCB		PDF	292	24 Aug 2011	23
PMP6536 BOM		PDF	31	24 Aug 2011	46
PMP6536 Gerber		ZIP	315	24 Aug 2011	15

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