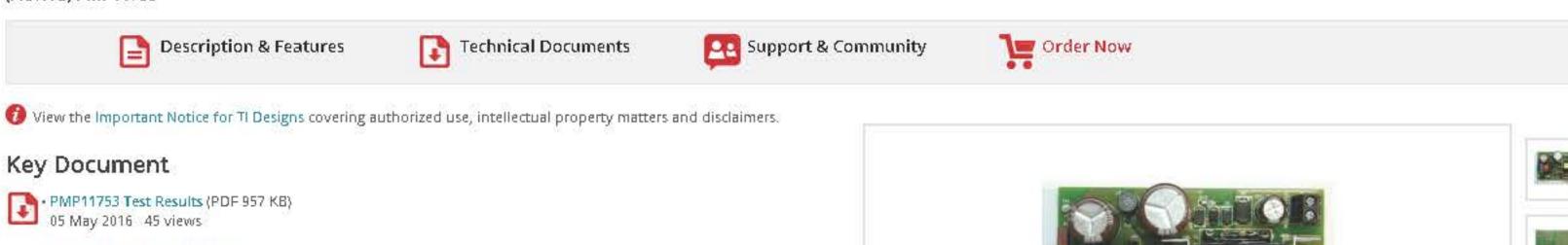


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₩Worldwide (In English)

European Input Voltage Range to 24V@2.5A Primary Side Regulated Isolated Flyback Reference Design

(ACTIVE) PMP11753



Description

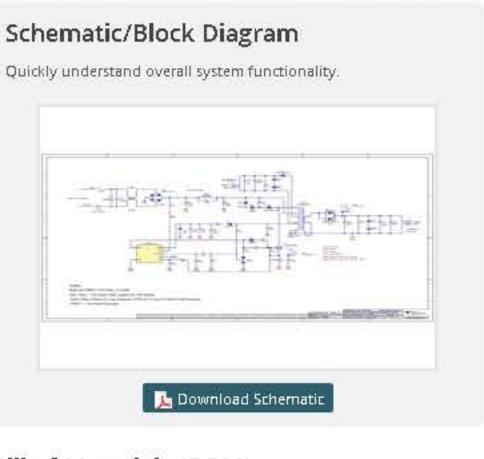
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A quasi-resonant primary-side regulated isolated Flyback is used to provide 24V industrial voltage at 1.9A average (2.5Apeak) on secondary side and 24V @ 300mA on primary side from an AC input voltage of 170Vac-264Vac. The converter does not employ any optocoupler and regulates both output voltages by sensing the auxiliary winding on primary side. Thanks to its own constant current capability, it is possible to parallel two or more power supplies.

Features

- Simple isolated PSR Flyback topology makes paralleling power supplies possible.
- Compact solution supplies 60W peak with almost flat efficiency from 2.5W to 55W (80%...89%).
- Opto-less topology increases the reliability of the power supply.
- Good output voltage regulation versus load: →/-2% at ambient temperature, →/-5% in the whole range









PMP11753 European Input Voltage Range to 24V@2.5A Primary Side Regulated Isolated Flyback Reference Design Top of Board Image

available for sale.

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

Bill of Materials (BOM)

Find the complete list of components in this reference design.

🝌 Download BOM

Parametrics

	PMP11753.1 (Output Voltage 1)	PMP11753.2 (Output Voltage 2)		
Vin (Min) (V)	170	170		
Vin (Max) (V)	264	264		
Vout (Nom) (V)	24	24		
lout (Max) (A)	2.5			
Output Power (W)	60	7.2		
Isolated/Non-Isolated	Isolated	Isolated		
Input Type	AC	AC		
Topology	Flyback- Quasi Resonant	Flyback- Quasi Resonant		

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
UCC28632	High Power Flyback Controller with Primary-Side Regulation and Peak Power Mode	Offline and Isolated DC/DC Controllers and Converters	Sample & Buy	View Design Kits & Evaluation Modules

Technical Documents

User guides (1)

Title	Abstract	Туре	Size (KB)	Date	Views	TI Recommends
PMP11753 Test Results		PDF	957	05 May 2016	45	~

Design files (6)

Title \$	Abstract ♦	Type ♦	Size (KB) ♦	Date ▼	Views \$
PMP11753 Gerber		ZIP	40	05 May 2016	11
PMP11753 CAD Files		ZIP	811	05 May 2016	24
▶ PMP11753 PCB		PDF	559	05 May 2016	23
PMP11753 Assembly Drawing		PDF	954	05 May 2016	24
PMP11753 BOM		PDF	137	05 May 2016	28
PMP11753 Schematic		PDF	309	05 May 2016	77

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