5V@2A adapter with universal input range

(ACTIVE) PMP4351

Description & Features | Technical Documents | Support & Community | Order Now

View the Important Notice for TI Designs covering authorized use, intellectual property matters and disclaimers.

Description

This reference design demostrates a low cost 5V2A adapter solution with primary side regulation controller UCC28700 which eliminates opto-coupler. Feature: 1.) Efficiency > 80% @230Vac; 2.) Pricise CC and CV control; 3.) Protection features like OCP, SCP and output OVP 4.) Low no-load power <35mW.

TI's Standard Terms and Conditions for Evaluation Modules apply.

Top of Board

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

	PMP4351
Vin (Min) (V)	90
Vin (Max) (V)	264
Vout (Nom) (V)	5
Iout (Max) (A)	2
Output Power	10
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	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
UCC28700	Constant-Voltage, Constant-Current PWM With Primary-Side Regulation	AC/DC and Isolated DC/DC Power Supply	Sample & Buy	View Design Kits & Evaluation Modules

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4351 Test Results		PDF	154	04 Feb 2013	50

Design Files (3)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4351 PCB		PDF	74	04 Feb 2013	42
PMP4351 BOM		PDF	50	04 Feb 2013	67
PMP4351 Schematic		PDF	24	04 Feb 2013	95

Support & Community

TI E2E™ community

TI E2E™ Community

As a member of my.TI you can join the TI E2E™ Community where you can ask questions, share ideas and collaborate with fellow engineers and TI experts

Contents are provided "AS IS" by the respective TI and Community contributors and do not constitute TI specifications. See Terms of use.

Engage in the Community

- Amplifiers
- Broadband RF/IF & Digital Radio
- Clocks & Timers
- Data Converters
- DLP® & MEMS
- Interface
- Logic
- Power Management
- Wireless Connectivity

Wikis

Visit the TI Wiki

Videos

Leading source for power reference designs

TI's industry leading PowerLab™ reference design library has now evolved into TI Designs. This video explains how to use the enhanced selection tool within TI Designs to quickly and efficiently search

Posted: 08-Oct-2014
Duration: 1:00
Views: 663
Tags: power management, power reference design, power management solutions, powerlab, power management designs, power design solutions, ti designs-power, ti designs, portable powerline power

Click here to jump start your design with TI Designs for Power Management

Related Videos

Now Playing

Leading source for power reference designs

Play

Power Tip 58: Power supply grounding; which camp are you in?

Other Support

- TI E2E Community
- Contact Technical Support

Your History

Products You Recently Viewed

- PMP7182.1
- PMP7806
- lm3485eval
- lm2852x-3.3eval
- lm2745-19aeval

TI is a global semiconductor design and manufacturing company. Innovate with 100,000+ analog ICs and embedded processors, along with software, tools and the industry's largest sales/support staff.

© Copyright 1995-2014 Texas Instruments Incorporated. All rights reserved.
Trademarks | Privacy policy | Terms of use | Terms of sale