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# UCC28950 600-W, Phase-Shifted, Full-Bridge Converter Evaluation Module

(ACTIVE) UCC28950EVM-442


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## Key Document

[600-W, Phase-Shifted, Full-Bridge Converter \(Rev. A\)](#) (PDF 659 KB)  
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## Description

The UCC28950EVM-442 is a 600-W phase-shifted full-bridge converter that converts a 370 V to 410-V DC input to a regulated 12-V output. This converter was designed to maintain ZVS down to 50% load. This 600-W EVM was designed to demonstrate how the UCC28950 control device could be used in high-efficiency applications by achieving ZVS from 50% to 100% load. To achieve this high efficiency the UCC28950 was designed to drive synchronous rectifiers on the secondary side of the full bridge converter. The UCC28950 also incorporates a burst mode and DCM function to improve no-load efficiency

## Features

- ZVS from 50% to 100% load
- Higher Efficiency for 80 + Applications
- Burst Mode/DCM Function to Reduce No-Load Power Dissipation to Meet Green-Mode Requirements

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UCC28950EVM-442: UCC28950 600-W, Phase-Shifted, Full-Bridge Converter Evaluation Module	\$99.00(USD)  In Stock <b>Typically Ships in 1 to 3 Business Days</b>  <a href="#">Buy from TI</a>	Pricing may vary.  <a href="#">Buy from distributor</a>	ACTIVE	Yes	Yes	Yes	NA	Pending	Pending	NA	NA	NA	No	No	No

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## Technical Documents

### Datasheet (1)

Title	Abstract	Type	Size (KB)	Date	Views
<a href="#">Green Phase-Shifted Full-Bridge Controller with Synchronous Rectification (Rev. B)</a>		PDF	1187	13 Oct 2011	

### User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views	TI Recommends
<a href="#">600-W, Phase-Shifted, Full-Bridge Converter (Rev. A)</a>	<a href="#">Read Abstract</a>	PDF	659	19 May 2010	1,870	✓

## Related Products

## Software (1)

 [UCC28950 Excel Design Tool \(Rev. C\)](#)  
(ZIP, 333 KB) 495 views, 12 Dec 2012

## TI Devices (1)


Part Number	Name	Product Family
UCC28950	Green Phase-Shifted Full-Bridge Controller with Synchronous Rectification	AC/DC and Isolated DC/DC Power Supply

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## Training & events

Name	Type	Available During
<a href="#">Georgia Tech MOOC: Control of Mobile Robots</a> Learn how to make mobile robots move in effective, safe, predictable, and collaborative ways using modern control theory.	On-Line Training	On Demand
<a href="#">SimpleLink™ Wi-Fi CC3100 and CC3200 Project 0 Series - 5 Part Series</a> Learn about using Software Tools for SimpleLink™ Wi-Fi CC3100 Boosterpack and CC3200 Launchpad	On-Line Training	On Demand
<a href="#">TI-RTOS Update</a> Learn about the latest TI-RTOS features and more in-depth understanding of this TI software tool.	On-Line Training	On Demand
<a href="#">Designing with Ultra Low Power Segmented Displays</a> Learn about designing Ultra-low Power Segmented Displays and MSP430	On-Line Training	On Demand

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