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Page 3/24

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Phase-Shifted Full
Bridge DC/DC Power
Supply. In this example
circuit a phase-shifted
full-bridge converter is
implemented with a
synchronous rectifier
on the secondary. Peak
current mode control,
PCMC, is implemented
with a PI controller
controlling the output
voltage. Other
interesting features of
the simulation are:

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Description. This design is a digitally-controlled, phase-shifted full bridge 600W DC/DC converter. A C2000™ Piccolo™ microcontroller is the controller for the phase-shifted full bridge converter, supporting peak current mode control and

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Phase Shifted Full Bridge Dc Dc synchronous rectification. The Piccolo microcontroller Design Guide

implements high performance peak current mode control without any external support circuitry, a distinctive capability amongst microcontroller-based designs.

TIDM-PSFB-DCDC Phase-Shifted Full Bridge DC/DC Power

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Phase shifted full bridge (PSFB) DC-DC converters are used frequently to step down high DC bus voltages and/or provide isolation in medium to high power applications like server power supplies, telecom rectifiers, battery charging systems, and renewable energy systems. Traditionally, micro-controllers have

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The full-bridge converter with PWM phase-shift control is one of very popular topologies potentially capable of achieving that efficiency at high power levels combining the advantages of hard switching technology and soft-switching technology.

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**A MOSFET's
behavior on a phase-
shifted ZVS full
bridge DC ...**

Description AN1335,
Phase-Shifted Full-
Bridge (PSFB) Quarter
Brick DC/DC Converter
Using a dsPIC DSC. It
provides the digital
implementation of a
telecom input 36
VDC-76 VDC to output
12 VDC 200W Quarter
Brick DC/DC Brick
Converter using the
Phase-Shifted Full-

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Bridge (PSFB) topology.

AN1335, Phase-Shifted Full-Bridge (PSFB) Quarter Brick DC ...

MOSFET body diode recovery mechanism in a phase-shifted ZVS full bridge DC/DC converter Introduction The ZVS exploits the parasitic circuit elements to guarantee zero voltage across the switching device before turn on, eliminating

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hence any power losses due to the simultaneous overlap of switch current and voltage at each transition [1].

AN2626 Application note -

STMicroelectronics

ZVS Phase Shift Full
Bridge Application Note
AN CFD2 Optimized
Design 7 2013-03 V1.0
March 2013 (6)
Synchronous
rectification MOSFETs:

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The IEX ZVS phase shift full bridge uses two paralleled OptiMOSTM IPP110N20N3 (200V V (BR)DSS (9) with 11mΩ R DS(on)). (MOSFET E, F) (7) Controller for primary and secondary: Texas Instruments UCC28950

ZVS Phase Shift Full Bridge - Infineon Technologies

Phase Shifted Full Bridge 10 Buck Derived topology OUTA, OUTB -

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Bridge Dc Dc
reference pair D
controlled by phase
shifting OUTC & OUTD
QE, QF are SRs, Diode
rectification is possible
8 È Î Í L & 8 Â Ç 0 Ì 0 É
Mouse over the
waveforms to play the
animation PA Leg Left
Leg QA, QB AP Leg
Right Leg QC, QD

Comparison of PSFB and FB-LLC for high power DC/DC conversion

The zero voltage

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Phase Shifted Full Bridge Dc Dc switched (ZVS) phase- shift full bridge (PSFB) Design Guide

switched (ZVS) phase-shift full bridge (PSFB) is one of the most common soft-switching topologies used in the applications listed above. This application note predominantly discusses the benefits of the new 600 V CoolMOS™ CFD7 MOSFET in a ZVS

800 W ZVS phase shift full bridge evaluation board

As shown in this

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Phase Shifted Full

reference design the dsPIC33F 'GS' devices enable designers to easily and cost effectively create products using advanced switching techniques such as Phase Shift Full Bridge (PSFB) topology that lower switching losses and enable efficiencies as high as 94%.

Quarter Brick DC/DC Converter Reference Design

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Phase Shifted Full Bridge Dc Dc Power Converter Design Guide

The Phase Shifted Full Bridge (PSFB) has always been considered the best design for high power DC/DC conversion. However, a newer technology called Full Bridge LLC (FB-LLC) has recently been used and accepted for high power DC/DC conversion.

**Phase Shifted Full
Bridge vs Full Bridge
LLC | TI.com Video**

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For the full bridge type DC - DC converter, we explain the operation by dividing the hard switching type and phase shift type separately. We will also refer to soft switching used for phase shift...

[e-Learning] Full Bridge Converter - Basics of Switching Power Supplies (5)

DOI: 10.1109/INTLEC.1
998.793475 Corpus ID:
110190201, Coupled-

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inductor current-
doubler topology in
phase-shifted full-
bridge DC-DC
converter @article ...

**Coupled-inductor
current-doubler
topology in phase-
shifted ...**

Introduction Phase-
shifted full-bridge ZVS
DC/DC converter
adopting PWM control
is easy to implement
load reliable operation
under the wide range

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Phase Shifted Full Bridge Dc Dc

changing condition.

Through phase shifting control, the power has realized soft switches turn-on and off, reduces the switching losses, improves efficiency.

Novel Full-bridge ZVS DC-DC Converter with an Clamp Diodes

The full-bridge phase-shift dc-dc converter with a current doubler output fulfills the

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demands with a robust design having a high power density and efficiency.

Optimization of a 5-kW Telecom Phase-Shift DC-DC Converter ...

The first one consists of an interleaved PFC while the second one is a DC-DC full bridge phase shifted PWM. Figure 2. Block diagram of the STEVAL-ISA172V2 system

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architecture The main blocks, from left to right, are: the EMC filter and the input rectifier, the 2-phase interleaved PFC and full bridge DC-DC with synchronous rectification.

AN4856 Application note -

STMicroelectronics

A full-bridge has half the rms current compared to a half-bridge, also, it can be

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Pure Converter
Design Guide

implemented with
phase shift control
which provides Zero
Voltage Switching
(ZVS) for primary side
switches.

**Design of Phase
Shifted Full-Bridge
Converter with
Current ...**

Toshiba's New Three-
Phase Brushless Motor
Control Pre-Driver IC
Features Sensorless
Control and Closed
Loop Speed Control. ...

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Basic simulation circuit
of Phase-Shift Full
Bridge (PSFB) AC-DC
power supply that can
operate on OrCAD ...

Phase-Shift Full Bridge (PSFB) AC-DC Power Supply Basic

...

Hello, we are looking
for a variable Phase-
Shifted Full-Bridge
Controller (With
Synchronous
Rectification) to create
a variable DC-DC

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converter. The LM5046 & UCC28950 controllers have the majority of the features except the ability to directly control by a micro (TMS320F28035).

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