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Interleaved One

A Two Phase

Interleaved

One Cycle

Control Pfc

For Charger

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A Two Phase Interleaved One

Digital Control of Two
Phase Interleaved PFC
and Motor Drive Using
MCU With CLA

ManisBhardwaj

ABSTRACT Power

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factor correction (PFC)

Cycle Control Pfc
is used in power

systems operating

from single phase AC

to correct for the non

linearity of the rectifier.

Use of PFC in motor

drives is increasing

because of increased

regulation from the

power utility side.

Digital Control of

Two Phase

Interleaved PFC and

Motor ...

A Two-Phase

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Cycle Control PFC for Charger

Applications The

electrification of cars is bringing new challenges to the

power electronics designers, AC/DC and DC/DC converters are

now also needed in the automotive world and car manufacturers and OEMs are striving to

**A Two-Phase
Interleaved One
Cycle Control PFC**

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for Charger ...

This converter has two interleaved phases, and the inductors of one interleaved phase are coupled with the inductors of the other interleaved phase.

Therefore, with this converter the modular structure, which is a key beneficial feature of the interleaved converters, cannot be realized. Furthermore, the maximum number of interleaved phases

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is ...
Cycle Control Pfc

TWO PHASE INTERLEAVED DC- DC CONVERTER

the two devices are shifted by a phase difference of $360/n$, where n is the number of parallel boost converters connected in parallel. For a two phase interleaved boost converter $n=2$, the phase shift is 180 degrees and it is shown in Fig.2. It can be seen

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that the input current, for two phase interleaved boost converter is the sum of each

Basic Design and Review of Two Phase and Three Phase ...

[4],[5],[6]. The operation of interleaved boost converter is that the two boost converters are in 180° out of phase. As the input current is the

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summation of two
inductor currents then
the inductor's ripple
currents cancel out
each other as it
operates in 180° out of
phase and also the
reduction in the

A Two Phase Interleaved Boost Single Stage PFC Converter ...

The coupled inductors
using two phase
interleaved boost DC-
DC converter is used

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for high power and high performance applications. The advantages of the coupled inductors interleaved boost converters include increased system efficiency, reduced core size, current ripple reduction.

Two-Phase Interleaved Boost Converter Using Coupled ...

Description, This

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Cycle Converter Pfc

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design is a digitally controlled, two phase interleaved, 700W power factor correction converter with added power metering functionality. A C2000™ Piccolo™ microcontroller is the controller for the two 180° phase shifted boost power stages that comprise the power factor correction converter, and, additionally, it monitors the line and neutral

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Interleaved One

cycle Control Pfc

metering functions.

TIDM-2PHILPFC Two-Phase Interleaved Power Factor ...

Two-Phase, Dual Interleaved Buck-Boost DC-DC Converter for Automotive

Applications. Abstract:

A two-phase buck-

boost converter

utilizing dual

interleaving is

presented in this

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article. The dual interleaving consists of an interphase transformer (IPT) that doubles the ripple frequency together with two conventional buck-boost switching arms, mitigating the inductor ripple current and aiding to increase the power density of the converter.

Two-Phase, Dual Interleaved Buck-Boost DC-DC

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Two Phase

Interleaved One
Converter for ...

2-Phase Power Factor
Controller, Interleaved
NCP1632 The NCP1632
integrates a dual
MOSFET driver for
interleaved PFC
applications.

Interleaving consists of
paralleling two small
stages in lieu of a
bigger one, more
difficult to design. This
approach has several
merits like the ease of
implementation, the
use of smaller

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**NCP1632 - Power
Factor Controller,
Interleaved, 2-Phase**

The two phase interleaved LLC resonant converter operation is made possible by enhanced control peripherals on C2000 devices, namely the type 4 PWMs, the ADCs, and comparators. This design accepts a DC input voltage between 370 volts and 410

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volts, and provides 12
volts of regulated DC
output voltage at a
maximum output
power of 500 watts or
42 ...

**Digitally Controlled
Interleaved LLC
Resonant Converter**

...

TWO PHASE
INTERLEAVED DC-DC
CONVERTER Suhani
Sumalatha, Dr. R.
Kavitha Published 2012
This paper presents a

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high-efficiency

nonisolated interleaved

dc-dc inductor

boost converter with a

common active clamp

circuit.

TWO PHASE INTERLEAVED DC-DC CONVERTER |

Semantic Scholar

Two-Phase Interleaved
Power Factor

Correction Converter
with Power Metering.

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...
Cycle Control Pfc

**Two-Phase
Interleaved Power
Factor Correction
Converter ...**

Fig. 6 shows a two-phase interleaved buck converter using a coupled inductor. The coupled inductor is represented as an ideal 1:1 transformer, two leakage inductances (L_{lk1}, L_{lk2}), and a magnetizing inductance (L_m). It

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should be noted that the ideal transformer is connected out of phase with the polarity dots on opposite ends.

Analysis and Design of Coupled Inductors for Two-Phase ...

LTC3789EGN 300W

2-Phase Interleaved

Synchronous Buck-

Boost Converter

Demonstration circuit

2253A is a high power,

high ef- ficiency,

2-phase interleaved

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synchronous buck-boost converter with a 6V to 36V input range.

It can supply a 25A maximum load current with a 12V output. This demo board features 2x LTC3789EGN controllers.

DC2253A -

LTC3789EGN: 300W

2-Phase Interleaved

Synchronous ...

In a two-phase converter, there are two output stages that

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Cycle Control Pfc

For Charger

are driven 180 degrees out of phase. By splitting the current into two power paths, conduction ($I^2 R$) losses can be reduced, increasing overall efficiency compared to a single-phase converter. Because the two phases are combined at the output capacitor, effective ripple frequency is doubled, making ripple voltage reduction much easier.

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**Interleaving is Good
for Boost
Converters, Too |
Power ...**

<http://www.element14.com> - To introduce the UCC28070 two-phase interleaved CCM PFC Controller and its basic operation.

**Two-Phase
Interleaved CCM PFC
Controller**

The NCP1631 is a controller for use in

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2-phase interleaved power factor correction pre-converters.

Interleaving consists of paralleling two small stages in lieu of a single big stage. This approach has several merits like ease of implementation, ability to use smaller components, and better distribution of heating.

NCP1631: Power Factor Controller,

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Two Phase

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2-Phase, Interleaved

Two-phase interleaved
LLC resonant converter
with phase shedding

control Abstract: A

novel two-phase

interleaved LLC

resonant converter is

proposed, which can

manage the number of

phases by output

loading. In the

proposed scheme, the

output load current is

detected with sensing

resistor in the output

terminal.

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Interleaved One

Two-phase

interleaved LLC

resonant converter

with phase ...

Two-phase interleaved buck, a simplest variant of the topology, is shown in figure 2.

Full ripple cancelation is achieved only in one working point—at duty cycle equal to 0.5. Any duty cycle other than trivial 0 and 1 will yield current ripples in input and output current as

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Two Phase
Interleaved One
shown in figure 3.
Cycle Control Pfc
For Charger

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