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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

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address this need in an
economical and efficient
way.

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Chargerout there. A Two

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Phase Interleaved One 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

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converter the modular
structure, which is a key

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converters are now also
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designers, AC/DC and DC/DC converters are now also needed in the automotive world and car manufacturers and OEMs are striving to address

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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 address this need in an

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semiconductor technologies
such as Silicon Carbide
(SiC) and Gallium Nitride
(GaN) are considered as the

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future of power electronic devices. Especially, in hard-switching applications where switching power losses are important, GaN devices are more attractive because of their very low gate charge amount.

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A New SiC-GaN-Based Two-
Phase Interleaved

Bidirectional DC ...

two-phase interleaved boost
converter $n=2$, which is 180
degrees and it is shown in
Fig.2. In the figure 1 it

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can be seen that the input current, i , for two phase interleaved boost converter is the sum of each channels inductors currents. As the two devices are phase-shifted by 180 degrees, the input current ripple

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produced is the smallest.

Charger

DESIGN AND SIMULATION OF PWM
FED TWO-PHASE INTERLEAVED

...

This paper introduces a two
phase interleaved boost
single stage PFC ac-dc

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Converter using flying capacitor with standard pulse width modulation (PWM) which provides higher power factor, reduction of total harmonic distortion and also provides better control. The proposed converter operation

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

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ManisBhardwaj ABSTRACT Power factor correction (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

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increased regulation from
the power utility side.

Digital Control of Two Phase
Interleaved PFC and Motor

...

Digitally controlled two
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resonant DC-to-DC converter
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between phases without any
additional hardware Peak
efficiency: 94.5%;
efficiency > 90% for all
loads above 10% of rated
load PowerSUITE support for

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easy adaptation of software
for a customized power level
Charger

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Converter ...

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

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for Automotive Applications.

Abstract: A two-phase buck-boost converter utilizing dual interleaving is presented in this article. The dual interleaving consists of an interphase transformer (IPT) that

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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.

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Two-Phase, Dual Interleaved
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for ...

The coupled inductors using two phase interleaved boost DC-DC converter is used for high power and high

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performance applications.

The advantages of the coupled inductors interleaved boost converters include increased system efficiency, reduced core size, current ripple reduction.

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Interleaved, 2-Phase NCP1632

The NCP1632 integrates a
dual MOSFET driver for
interleaved PFC

applications. Interleaving

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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 components or a better distribution of the

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NCP1632 - Power Factor
Controller, Interleaved,
2-Phase

The NCP1631 integrates a
dual MOSFET driver for
interleaved PFC

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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 components or a

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better distribution of the
heating.

NCP1631 - Interleaved,
2-Phase Power Factor
Controller

The two phase interleaved
LLC resonant converter

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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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cycle, and provides 12 volts of regulated DC output voltage at a maximum output power of 500 watts or 42.5 amperes of load current.

Digitally Controlled
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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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