

## A Wide Output Range High Power Efficiency Reconfigurable

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[Download A Wide Output Range High Power Efficiency Reconfigurable - Abstract—This paper presents a wide output range, high power efficiency reconfigurable charge pump for driving touch panels with the high resistances The charge pump is composed of 4-stages and its configuration automatically changes based on the required output voltage level In order to keep the](#)

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efficiency with respect to the wide output voltage range. This chip is fabricated using 0.18 mm BCD process with high power MOSFET options, and the die area is 1870 mm x 1430 mm. The power consumption of the charge pump itself is 79.13 mW when the output power is 415.45 mW at the high voltage mode, while it is 20.097 mW when the output

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Get Free A Wide Output Range High Power Efficiency Reconfigurable the die area is 1870 mm x 1430 mm. The power consumption of the charge pump itself is 79.13 mW when the output power is 415.45 mW at the high voltage mode, while it is 20.097 mW when the output A Wide Output Range, High Power Efficiency Reconfigurable ... The LT@1676 is a wide input range, high Page 5/28

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Wide Output Range High Power Efficiency Reconfigurable mm x 1430 mm. The power consumption of the charge pump itself is 79.13 mW when the output power is 415.45 mW at the high voltage mode, while it is 20.097 mW when the output A Wide Output Range, High Power Efficiency Reconfigurable ... The LT@1676 is a wide input range, high efficiency Buck (step-Page 6/29

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This paper presents a high voltage step-up dc-dc converter with low voltage stress on the switches and with a wide output range. High-frequency operation with zero voltage switching (ZVS) may be accomplished, in order to shrink the size and to increase the efficiency of the converter.

[High Frequency Wide Output Range Boost-Flyback Converter ...](#)

2015 IEEE 2nd International Future Energy Electronics Conference (IFEEEC) It's difficult for LLC-Series Resonant Converter (LLC-SRC) to achieve a wide range of output voltage for a certain input voltage. Traditional solution to this problem is employing dummy load or burst control mode. Dummy load brings down the efficiency and burst control mode gives rise to a ripple of output voltage.

[A wide output voltage LLC Series Resonant Converter with ...](#)

Wide input and output range convection cooled DIN rail mount DC-DC converters deliver up to 250W per output. San Diego, CA - March 2020. TDK Corporation (TSE 6762) announces the introduction of the TDK-Lambda brand DIN rail mount DDA DC-DC converters. The series uses step-down non-isolated power modules that operate from an input range of 9 up to 53Vdc, with a wide adjustable output voltage range of 3.3 up to 24V.

[Wide input and output range convection cooled DIN rail ...](#)

For battery charging applications, the output voltage range of the dc-dc converter can be from 200 V to 420 V. Therefore, high-frequency link dc-dc converters with wide output voltage are Electronics2019, 8, 3; doi:10.3390/electronics8010003www.mdpi.com/journal/electronics

[Resonant Converter with Voltage-Doubler Rectifier or Full ...](#)

Specifically, high-order wide-output (HOWO) ISC topologies have non-minimum phase characteristics with extra phase lagging effect, which imposes limitation on the control design for achieving high loop-gain (low tracking error) and sufficient stability margin.

[Wang, Yachao and Badawy, Ahmed and Holliday, Derrick and ...](#)

It eliminates both low- and high-frequency current ripple on the battery, thus maximizing battery life without penalizing the volume of the charger. Simulation and experimental results are presented for a prototype unit converting 390 V from the input dc link to an output voltage range of 48-72 V dc at 650 W.

[An LLC Resonant DC-DC Converter for Wide Output Voltage ...](#)

extended output voltage range of these HOWO-ISCs create increased voltage and current stresses on the power switches, which are a function of the duty cycle as in Table 1 . Also, in [12, 24], the buck and sepic converters can be derived into their high frequency isolated

versions by using coupled inductors.

### Plug in Repetitive Control Strategy for High Order Wide ...

Abstract: LLC resonant converter is one of the most suitable circuit topologies that have been introduced for designing constant output voltage switched-mode power supplies. In this paper, a design procedure is introduced for using this converter as a wide output range voltage source. Unlike constant output voltage applications which need small converter inductance ratio and narrow switching frequency variations, for wide output range applications, large values of these parameters are needed ...

### A Design Procedure for Optimizing the LLC Resonant ...

Wide-Output Voltage: ADJ 1.24V to 22; Fixed 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.3V, 5.0V

### Wide Input Voltage Range, High PSRR, 200mA LDO Regulator ...

a wide voltage range and high efficiency. A prototype rated to 1.0-kW is designed to convert the input of 360V to an output of 100–420V, and the proof of concept is validated.

### Wide-Range Voltage Gain and High-Efficiency of Isolated LLC ...

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