

PowerLab™ Connection

Your monthly update on Power Reference Designs



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Improving efficiency across all loading conditions

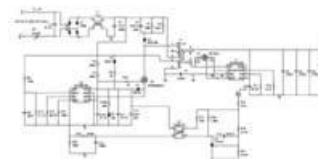
This month's featured power reference design is a high efficiency dual charger designed with the UCC28610 + UCC24610 combination and 2 TPS2540 (USB switches). The UCC28610 provides quasi-resonant control and burst-mode for improved light-load efficiency and low standby power while the UCC24610 a green rectifier controller enables high efficiency at full load. The TPS2540 USB switch enables the charger to identify the host and provide the proper data line configuration. This design allows a user to charge two different devices simultaneously, for example a smart phone and a tablet.

Featured Video



[Power Tip 38: Simple latch circuit protects power supplies](#)

Featured Reference Design



[PMP5952: Dual Port High Power USB Charger](#)



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NEW DESIGNS

PMP6776: Xilinx® Kintex-7™ Low-cost Reference Design

PMP6838: 5V Input to 5V/1W Output, Isolated SIP Module

PMP6943: 18V-36V Input 28V/100W Flyback

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MOST POPULAR DESIGNS

PMP4259: Pre-regulator for Air Conditioning (80Vdc output with 3kW)

PMP4288: AC/DC Driver for Street Lights (3.8A @ 54V)

PMP5141: PFC from a universal AC input voltage range (24V/10A output)

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FEATURED DESIGNS FOR POWER OVER ETHERNET

*This month features the top 3 designs for **Power over Ethernet (PoE)***

PMP5435: Flyback (5V@5A, [50V@0.5A](#)) for PoE

PMP5595: PoE Controller [12V@0.6A](#)

PMP6584: High-power PoE Converter 8V@3A

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TOPOLOGY ROUNDUP

*This month features the top 3 **Green-mode Flyback** designs.*

PMP5801: 200VAC-400VAC Input, 12V/6W Output

PMP6710: 85VAC-265VAC Input, 12V/1A Output with BJT

PMP6788: 85VAC-265VAC Input, 15V/1A Output with BJT

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MORE INFORMATION

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