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Synchronous Buck

Reference Design

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PMP430



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	PMP430
Name	Synchronous Buck Reference Design
Status	ACTIVE
Price (US\$)	Free

Product Information

Description

This reference design describes a high power, variable output converter that operates from a 20-40VDC input voltage. The output is adjustable from 4-15VDC at output currents up to 20A. Total power available from the supply is 200W maximum. The TPS40051 is a high efficiency, wide input range synchronous buck controller. It contains all control components necessary to implement a voltage mode PWM controller. Features include short circuit protection and voltage feed-forward control. The feed-forward control provides a constant, stable control loop over the complete input voltage range. With a 32VDC input and 12V at 10A output, the efficiency is better than 94%.

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Part#	Name	Product Family
TPS40055	Wide Input (8V-40V) up to 1MHz Frequency Synchronous Buck Controller, source/sink	Switching Regulator

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