Class 4- Wide Input Range 15W PoE Converter

(ACTIVE) PMP6659

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Description

PMP6659 is a flyback converter with synchronous rectification. It accepts input voltages of 10.8-57VDC/18-32VAC/PoE and has a 12V/1.25A output. This input and output combination is typically required for PoE security cameras. The synchronous rectifier provides excellent efficiency with the wide input voltage range.

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Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP6659
Vin (Max) (V)	57
Vin (Min) (V)	10.8
Vout (Nom) (V)	12
Iout (Max) (A)	1.25
Output Power	15
Isolated/Non-Isolated	Isolated
Input Type	DC
Topology	Flyback- Synchronous POE

TI Devices (1)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TPS23756	High Power/High Efficiency PoE Interface and DC/DC Controller	Power Over Ethernet (PoE)/LAN Solutions	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS23756	HTSSOP (PWP) | 20	Download	Download

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP6659 Test Results		PDF	1788	07 Sep 2011	29

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP6659 Gerber		ZIP	623	07 Sep 2011	21
PMP6659 PCB		PDF	83	07 Sep 2011	38
PMP6659 BOM		PDF	34	07 Sep 2011	57
PMP6659 Schematic		PDF	62	07 Sep 2011	64

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