18Vdc-57Vdc Input Isolated Battery Charger 29V @ 3A

(ACTIVE) PMP4963

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Description

The PMP4963 reference design uses the TPS40210 PWM controller in a flyback configuration to supply 3A of charge current at over 90% efficiency. The output voltage is limited by the control circuitry to 29.4V.

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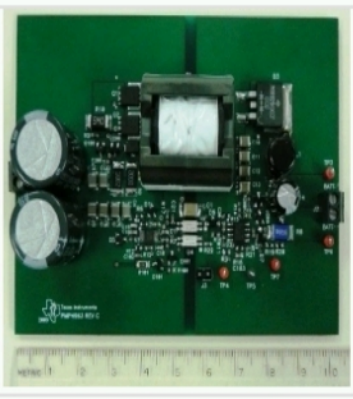

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP4963
Vin (Max) (V)	57
Vin (Min) (V)	18
Vout (Nom) (V)	29
Iout (Max) (A)	3
Output Power	87
Isolated/Non-Isolated	Isolated
Input Type	DC
Topology	Flyback- Non Sync

TI Devices (3)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
LM158	Dual General-Purpose Operational Amplifier	Operational Amplifier (Op Amp)	Sample & Buy	View Design Kits & Evaluation Modules
TL103WA	Dual OpAmp With Internal Reference	Operational Amplifier (Op Amp)	Sample & Buy	View Design Kits & Evaluation Modules
TPS40210	Wide Input Range Current Mode Boost Controller	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
LM158	CDIP (JG) | 8	Download	-
	LCCC (FK) | 20	Download	-
TL103WA	SOIC (D) | 8	Download	Download
TPS40210	HVSSOP (DGQ) | 10	Download	Download
	VSON (DRC) | 10	Download	-

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4963 Test Results		PDF	938	15 Aug 2011	25

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4963 BOM		PDF	63	02 Aug 2011	46
PMP4963 Schematic		PDF	74	02 Aug 2011	49

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