OFF-LINE SWITCH MODE TRANSFORMERS

Indicated Parts are UL1950 & CSA-950 Recognized under UL File# E162344

- Designed for Use with Power Integrations IC's.
- Designed to Meet UL1950/IEC950 Safety Standards.
- Design Engineering Support Available.
- Multiple Configurations.

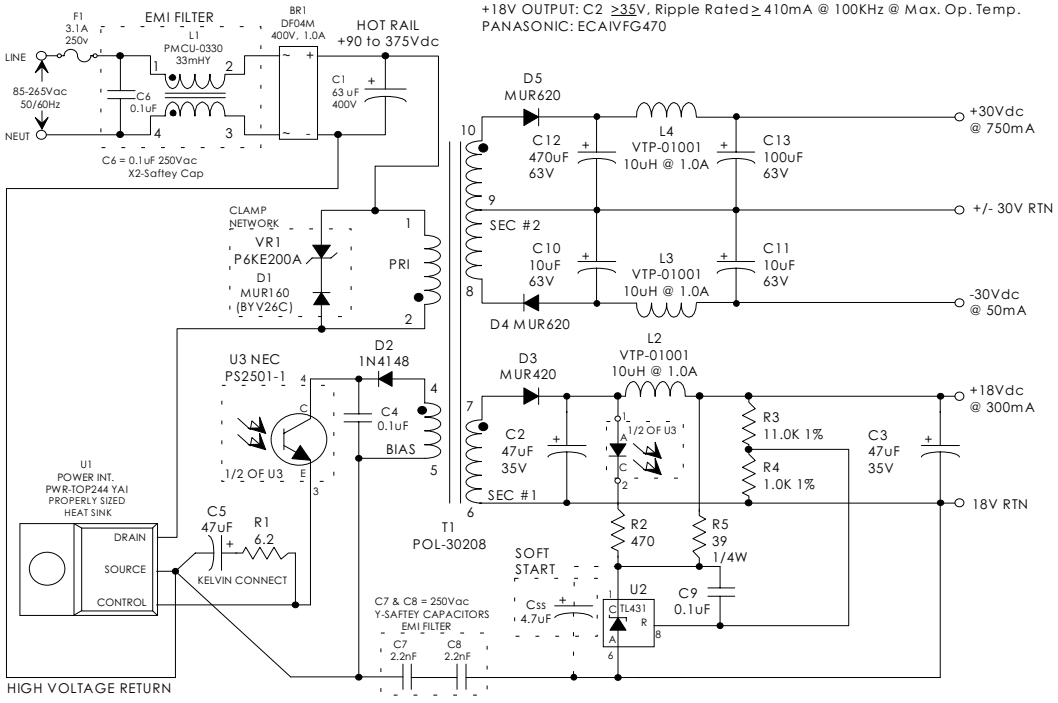
GENERAL APPLICATION INFORMATION

Premier Magnetics' Off-Line Switch Mode Transformers have been designed for use with Power Integrations, Inc. TOPXXX series of off-line PWM switching regulators in the Flyback Buck-Boost circuit configuration. This conversion topology can provide isolated multiple outputs with efficiencies up to 90%. Premiers' Switching Transformers have been optimized to provide maximum power throughput.

The TOPXXX series from Power Integrations, Inc. are self contained upto 132KHz controlled PWM switching regulators. This series contains all necessary functions for an off-line switched mode control DC power source. These switching regulators provide a very simple solution to off-line designs. The inductors and transformer used with the PWR-TOPXXX are critical to the performance of the circuit. They define the overall efficiency, output power and overall physical size.

Below is a universal input high precision 15V @ 2 Amps (30 watt) application circuit utilizing Power Integrations PWR-TOP226 switching regulator in the flyback buck-boost configuration. The component values listed are intended for reference purposes only. The soft start capacitor Css is optional depending on the specific application. Simpler topology is possible depending on the line/load regulation required.

SCHEMATIC



Specifications subject to change without notice.

pol 03/04

premier magnetics
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GENERAL ELECTRICAL SPECIFICATIONS AT 25°C

CLICK ON THE RESPECTIVE PART NUMBER TO DISPLAY A DETAIL DATA SHEET

PART NUMBER	Recommended Power Intgr.	APPLICATION DATA			Recommended	
		Input Volts	Output Volts@Currents(A)	Output Power	Input Filter CMC	Output Filter Inductor
POL-JX010	TOP 267EG	90-265	5V@10.0	50	PMCU4100	VTP-00310
POL-JX011	TOP 265EG	110-400*	5V@4.0	20	N/A	VTP-12001
POL-JX012	TOP 259LN	110-400*	12V@2.5	30	N/A	VTP-10002
POL-JX013	TOP 267KG	110-400*	12V@3.35	40	N/A	VTP-30005
POL-JX014	TOP 269EG	90-265	19V@3.42	65	PMCU-40009	VTP-30005
POL-JX015	TOP 266EG	90-265	5V@2.5, 14.5@1.0	27	PMCU-4330	VTP-01002, 00301
POL-JX016	TOP 267VG	90-265	5V@1.5, 16@1.8	36.3	PMCU-4330	VTP-01002
POL-JX017	TOP264VG	90-265	12V@1.5	18	PMCE-0330	VTP-10002
POL-JX018	TOP266VG	90-265	12V@2.5	30	PMCE-0330	VTP-10002

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