

OFF-LINE SWITCH MODE TRANSFORMERS

- o Designed for use with Power Integrations, Inc. TOPSwitch-HX switch mode power supply Controller Family.
- o Designed to meet UL/IEC 60950 Safety Standards.
- o Multiple configurations.
- o Designed to meet Class B insulation.
- o Design Engineering Support Available.

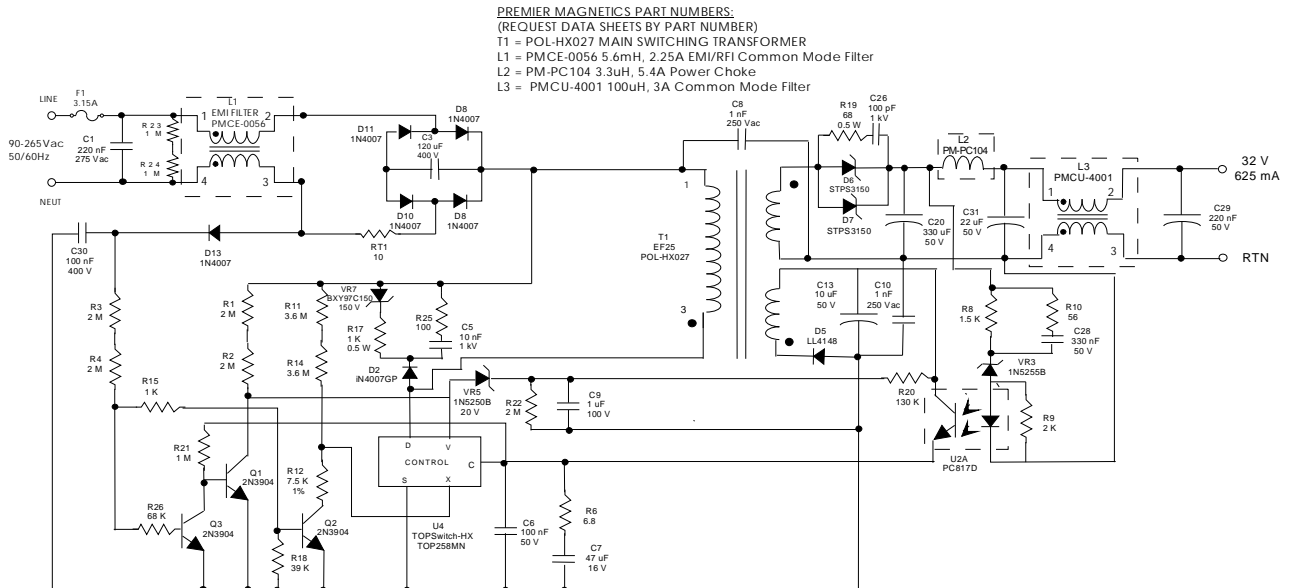
GENERAL APPLICATION INFORMATION

The Premier Magnetics, Inc.'s POL-HXxxx line of Transformers listed in this brochure are designed specifically for use with Power Integrations, Inc. HX series lineup of switcher controllers, and together in the design of their standard off-line AC-DC flyback power supplies. This conversion topology can accept universal 90-265 VAC input and deliver single and multiple isolated outputs with high efficiencies under all load conditions.

The Power Integrations' TOPxxxEN series controllers as noted in the table on the second page of this document operate at a higher frequency of 132kHz or, as an option, at the half frequency of 66kHz. The higher 132kHz frequency allows for a smaller physical Transformer which in turn results in a smaller overall power supply size. There is an optional lower 66kHz frequency available on these "EN" series controllers for video applications. The other non-"EN" series controllers listed within the table operate at 66kHz only.

This POL-HXxxx series of Premier Magnetics, Inc. Transformers are designed to provide high performance and reliability, high efficiency across the load, and maximum power throughput, providing value to support a cost effective power supply design.

APPLICATION CIRCUIT



Note: The above application circuit is that of a 20W continuous, 80W peak, universal input power supply using the Power Integrations, Inc.'s TOPSwitch-HX Controller TOP258MN, and the Premier Magnetics, Inc.'s isolation Transformer POL-HX027, Common Mode Choke PMCE-0056, and Power Inductor PM-PC104.

Specifications subject to change without notice.

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OFF-LINE SWITCH MODE TRANSFORMERS

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-HX009	TOP 258MN	85-265	12V@.8, 8V@.075, 40V@.3	22	PMCE-0330	VTP-01001
POL-HX010	TOP 260EN	102-265	12V@8, 8V@4	100	PMCE-0330	VTK-01007, VTP-01005
POL-HX011	TOP 258PN	185-265	24V@2.08	50	PMCE-0330	VTP-12001
POL-HX012	TOP 259LN	90-265	19.7V@3.33	65	PMCE-0330	VTP-10002
POL-HX013	TOP 254EN	90-265	12V@1.5	18	PMCE-0330	VTP-12001
POL-HX014	TOP 254EN	90-265	6V@2.5	15	PMCE-0330	VTP-10002
POL-HX015	TOP 258EN	90-265	19V@3.42	65	PMCE-0330	VTP-10002
POL-HX016	TOP 258EN	90-265	19V@3.42	65	PMCE-0330	VTP-10002
POL-HX017	TOP259EN	90-265	19V@3.42	65	PMCE-0330	VTP-10002
POL-HX018	TOP 255PN	85-265	12V@1.67	20	PMCE-0330	VTP-12001
POL-HX019	TOP 257EN	90-265	13V@2.69	35	PMCE-0330	VTP-10002
POL-HX020	TOP 256EN	90-265	5V@2, 15V@2	40	PMCE-0330	VTP-12001
POL-HX021	TOP 257EN	90-265	13V@2.69	35	PMCE-0330	VTP-10002
POL-HX022	TOP 258PN	90-265	5V@1.7, 15V@1.9	35	PMCE-0330	VTP-01001, VTP 01001
POL-HX023	TOP 258PN	90-265	5V@2.2, 12V@2	35	PMCE-0330	VTP-01001, VTP01001
POL-HX024	TOP 261EN	108-132	5Vsb@2, 12V@2, 24V@4.1	133	PMCE-0330	VTP-01001, VTP 01005
POL-HX025	TOP 256EN	90-265	19V@2.1	40	PMCE-0330	VTP-01001
POL-HX026	TOP 256MN	100-375DC	5V@4	20	PMCE-0330	VTP-01005
POL-HX027	TOP 258MN	90-265	32V@.65	20	PMCE-0330	VTP-01001
POL-HX028	TOP 258MN	90-265	24V@1.46	35	PMCE-0330	VTP-12001
POL-HX029	TOP 257PN	85-265	12V@2.5	30	PMCE-0330	VTP-10002
POL-HX036	TOP 258EN	90-265	19V@3.42	65	PMCE-0330	VTP-10002
TSD-3183	TOP261Y	85-265				
TSD-3184	TOP258P	90-265	12V @ 2A, 5V @ 2.2A	35		
TSD-3185	TOP258Y	250-380	19V @ 7.7A	150		

Note:
POL-HX015: 12 Pins Vertical
POL-HX016: 10 Pins extended Vertical, Secondary self-leads