AC240W240SXXA SCHMID-M

240W 4"×2" Low Profile Open Frame Power Supply

Universal AC input/ Full range

100% full load burn-in test

Constant voltage type

Class I power supply

VH-3.96 Input/Output Interface

Protection types: Short circuit, overcurrent, overvoltage

High efficiency/small size

EFF≥ 90%

3-year warranty

Model	Convection/12 CFM	R&N	TOL.	Line regulation	Load regulation	Effi.
AC240W240S12A	12V 10A/20A	120mVp-p	±5%	±0.5%	±1%	90%
AC240W240S15A	15V 9A/16A	150mVp-p	±5%	±0.5%	±1%	90%
AC240W240S18A	18V 7.5A/13.4A	180mVp-p	±5%	±0.5%	±1%	90%
AC240W240S24A	24V 5.8A/10A	200mVp-p	±3%	±0.5%	±1%	92%
AC240W240S28A	28V 5A/8.58A	250mVp-p	±3%	±0.5%	±1%	92%
AC240W240S36A	36V 3.8A/6.67A	250mVp-p	±1%	±0.5%	±1%	94%
AC240W240S48A	48V 2.8A/5A	250mVp-p	±1%	±0.5%	±1%	94%
AC240W240S54A	54V 2.5A/4.45A	250mVp-p	±1%	±0.5%	±1%	94%

Input	Voltage Range	100-240VAC 140-370VDC
	Frequency Range	47～63Hz
	Ac Current & POWER FACTOR	3.5A/115VAC 1.8A/230VAC & PF>0.95/230VAC PF>0.98/115VAC at full load
	Inrush Current (Max.)	COLD START 40A/115VAC 80A/230VAC
	Leakage Current(Max.)	Earth leakage current , touch current < 500 A < 70 A (rms) @ 264VAC (rms) @ 264VAC
Protection	Over Temperature	re-power on to recover
	Overload	110% -200% of the rated output power Protection type : hiccup mode, recovers automatically after fault condition is removed
	Over Voltage	>115%~135%, Shut down o/p voltage, re-power on to recover
Environment	Working Temp.	-20～60℃
	Working Humidity	20～90% RH,non-condensing
	Storage Temp., Humidity	-30～+ 85℃ , 10～95% RH
	Temp. Coefficient	±0.03%/℃ (0～50℃)
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
Safety & EMC	Safty Standard	CB IEC62368-1, IEC60335-1, IEC61558-1/-2-16, IEC60601-1; TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, BS EN/EN60601-1 ; (3.2 Version) UL UL62368-1, ; ANSI / AAMI ES60601-1(3.2 Version) CCC GB4943.1 ; RCM AS/NZS 61558-1/-2-16; EAC TPTC 004 approved.
	Withstand Voltage	I/p-O/P: 3.75KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/70% RH
	Emc Immunity	BS EN/EN61000-4-2, 3, 4,5,6,8,11
Others	Mtbf	≥ 411 Khrs MIL-HDBK-217F(25°C)
	Dimension	101.6*50.7*30 (L*W*H)
	Net Weight	0.225KGS
NOTE	1.Unless otherwise specified, all specifications and parameters are measured under the conditions of 230VAC input, rated load, and an ambient temperature of 25°C with 70%RH. 2.DC voltage test method: Measure at the end of the plug terminal under 50% load condition. 3.Ripple and noise measurement method: Connect capacitors of 0.1uF and 47uF in parallel at the output terminal of the power adapter, and conduct measurements at a bandwidth of 20MHz. 4.Accuracy: includes set error, linearity adjustment rate, and load adjustment rate. 5.Linear regulation rate measurement method: Test from low voltage to high voltage under rated load. 6.The power supply is regarded as a component within the system and requires electromagnetic compatibility confirmation in conjunction with the terminal equipment. 7.The startup time is measured in a cold boot state, and continuous switching on and off may prolong the startup time.	

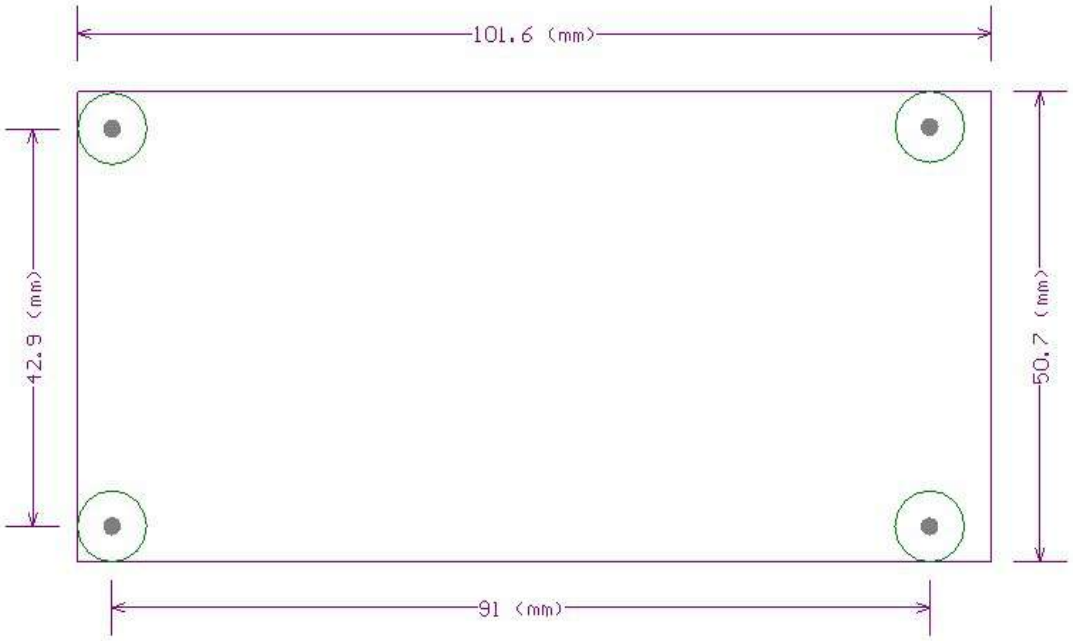
Schmid Multitech GmbH Weinbergstraße 60b, 93105 Tegernheim - Germany www.schmid-m.com

AC240W240SXXA SCHMID-M

240W 4"×2" Low Profile Open Frame Power Supply

Mechanical Specification

(Unit: mm , tolerance ± 1mm)



AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/N		

DC Output Connector (CN2) : JST B6P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,3	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
4,5,6	-V		

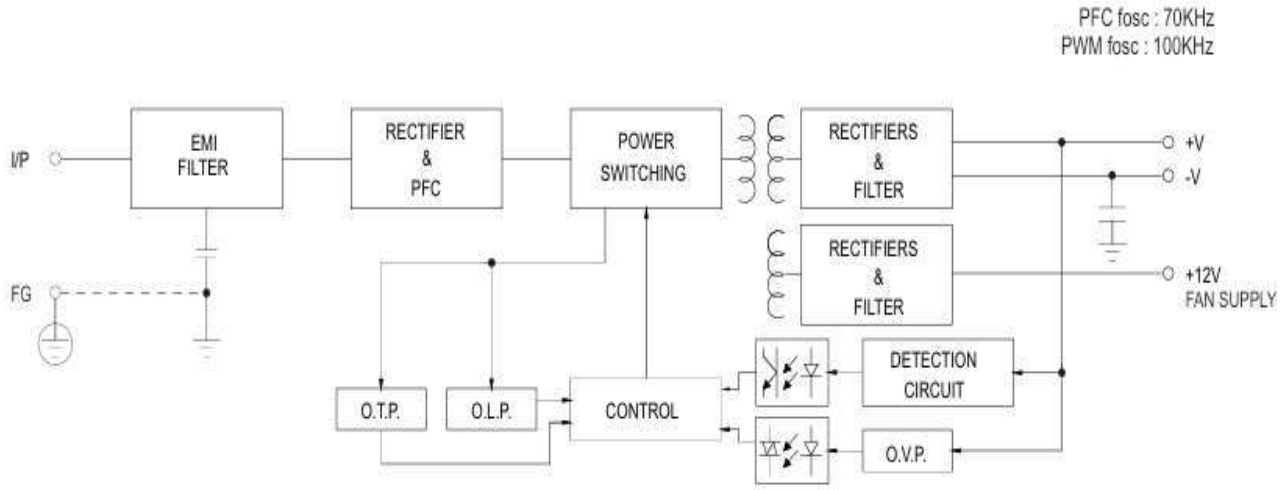
FAN Connector(CN101) : JSTB2B-PH-K-S or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+12Vaux	JST PHR-2 or equivalent	JST SPH-002T-P0.5S or equivalent
2	DC COM		

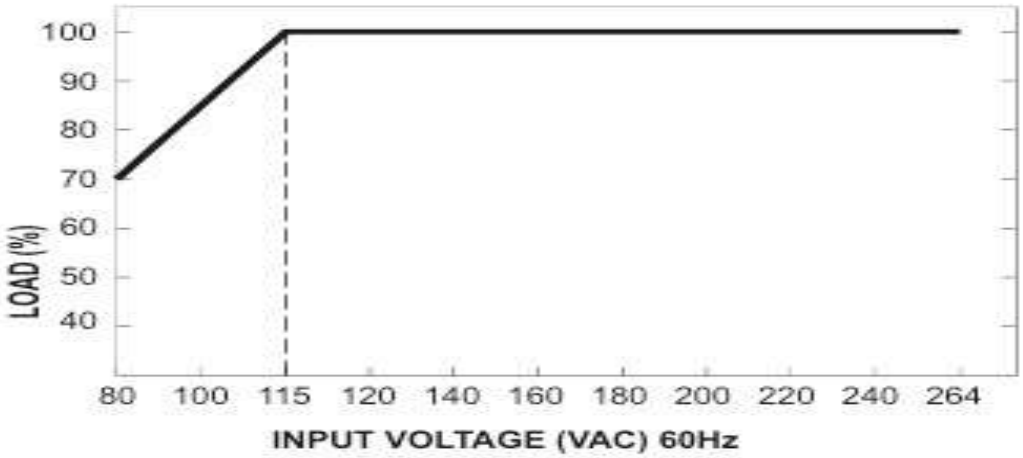
AC240W240SXXA SCHMID-M

240W 4"×2" Low Profile Open Frame Power Supply

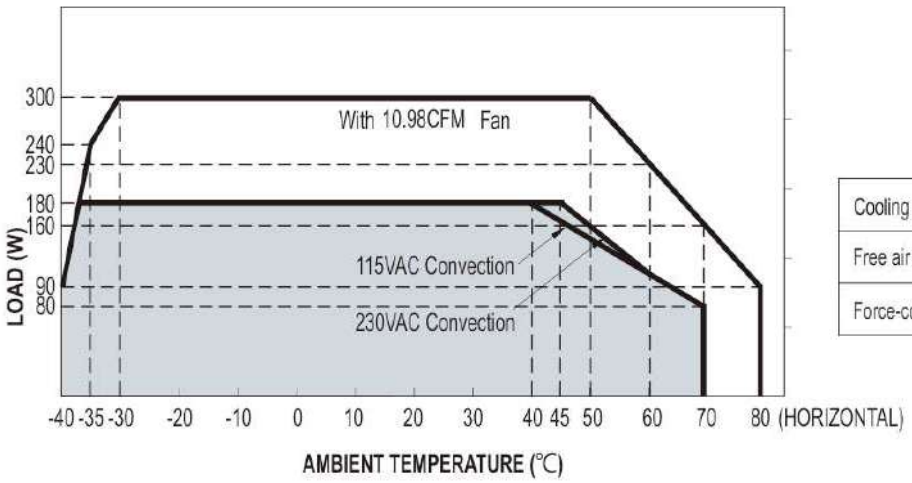
Block Diagram



• Output Derating & Input Voltage



Derating Curve



Cooling	Max. Output Power
Free air convection	180W
Force-cooled with external Fan	300W