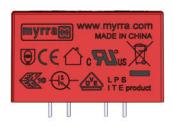




47000 SERIES





MAIN FEATURES:

O 2.5 To 5W Small Compact Size - PCB Mount

Single Output - Regulated

Output Range: 3.3VDC - 24VDC

Input Range: 85VAC - 265VAC/47 - 63Hz Or 120VDC - 370VDC

Very Low Standby Power Consumption < 0.2W

Better Energetic Efficiency : Meet Requirements Of Energy Star
 And EC Code Of Conduct

Encapsulated Design And Same Footprint As El30 Transformer:
 Upgrade Your Application Without Redesign Of PCB

Safety: Meets All Requirements of: IEC/EN61558-2-16
 IEC/EN60950,IEC/EN60335, UL/CUL60950, CE,VDE,ENEC Mark

O Materials: Uses UL 94-V0 Plastic And Resin

 EMC : Conducted And Radiated Emissions Conform To EN55014 , EN55032, CLASS B

Immunity Conform To EN61000-3-2 CLASS A,
 EN61000-3-3,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,
 IEC61000-4-5, IEC61000-4-6, IEC61000-4-11

Reference	Output voltage (DC Volts)	Output current (DC mA)	Output Power (W)	Efficiency (%)	Ta (℃)
47121	3.3	750	2.5	65	+70
47122	5	550	2.75	68	+70
47123	9	270	2.5	72	+70
47124	12	210	2.5	74	+70
47124 SLI	12	210	2.5	74	+70
47125	15	170	2.5	75	+70
47126	24	110	2.5	77	+70
			9		
47151	3.3	1350	4.5	65	+50
47152	5	900	4.5	68	+50
47153	9	550	5	72	+50
47154	12	420	5	75	+50
47155	15	320	5	76	+50
47156	24	210	5	79	+50
47157	3.8	1180	4.5	66	+50

Note: Other Output Voltages Are Available Upon Request.

Revision: 3 Please refer to MYRRA's website and catalogue for 47 series application notes.



47000 SERIES

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CALUS DE ESTO CE VROIS				
Model: 2.5 To 5 Watt		Specification		
AC Input Characteristics	Rated input Voltage	100~240Vac Or 140VDC-340VDC		
	Input Voltage Range	85~265Vac Or 120VDC-370VDC		
	AC Input Frequency Range	47Hz~63Hz		
	Rated AC Input Frequency	50/60Hz		
	Input Current	0.2A Max@85Vac~265Vac, at full load		
	Standby Power	0.2W Max(Meet Requirements Of Energy Star And EC Code Of Conduct)		
DC Output Characteristics	Output Voltage Accuracy	± 2%		
	Output Voltage Line Regulation	± 0.5%		
	Output Voltage Load Regulation	± 2%		
	Ripple & Noise	Max 200mVp-p@ Rated AC input(The measuring will be terminated with a 47uF AL E-Cap and a 0.1uF Cer-Cap. An oscilloscope set at 20MHz bandwidth)		
	Dynamic Response	The output voltage shall not exceed \pm 10% rated output voltage @ 10% \leftarrow \rightarrow 90% Load change, 1A/uS , 1KHz 50% duty cycle		
	Overshoot	The output voltage shall not exceed +15% rated output voltage @ Power on and 85Vac~265Vac input, and DC with full load		
	Undershoot	The output voltage shall not exceed -15% rated output voltage @ Power off and 85Vac~265Vac input and DC output with full load		
	Hold Up Time	5mS Min@ 100Vac ~240Vac, DC output with full load		
	Turn On Delay	2S max @ 85Vac~265Vac input and DC output with full load		



SIVE CON ST 2.5 TO SVV REGULATED 47000 SERIES				
	Rise Time	50ms Max @ 85Vac~265Vac input and DC output with full load		
	Efficiency	See Table(Meet Requirements Of Energy Star And EC Code Of Conduct)		
Protection Characteristics	Over Current Protection	The power supply shall automatic protection. The power supply shall auto-recovery normal operation after the deformation is removed. No excessive heat, odor, or plastic deformation shall occur, no safety hazard		
	Output Short Circuit Protection	The power supply shall withstand a continuous output short without damage in 24 hours; The short may be applied before power on, or after power on; The power supply shall resume normal operation after the short is removed, no excessive heat, odor, or plastic deformation shall occur, no safety hazard		
	Over Temperature Protection	The power supply shall shut down when the junction temperature of PWM controller exceeds the thermal shutdown temperature ,typically 140°C±10°C.		
Environmental	Operation Temperature	-25°C ~ +Ta (see table)		
	Operation Humidity	10~ 90% RH(No Condensing) @ full load		
	Storage Temperature	-40°C~ +85°C		
	Storage Humidity	5%~95%		
Safety & EMC Requirement	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 sec .		
	Radiation	Meeting EN55032,EN55014 , Class B. under 3dB margin		
	Conduction	Meeting EN55032,EN55014, Class B. under 3dB margin		
	Power Clamp Radiation	Meeting EN55014-1:2006+A1:2009+A2:2011		
	Lightning Surge	MeetingIEC61000-4-5:2014,±1KV (surge level can be extended to 6KV with an external circuit - please refer to MYRRA's		

Revision: 3 www.myrra.com

Please refer to MYRRA's website and catalogue for 47 series application notes.

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extended to 6KV with an external circuit - please refer to MYRRA's



	: ?! !s	47000 SERIES 47000 SERIES
		website and catalogue for MYRRA SMPS application notes).
	Electric Fast Transient	Meeting IEC61000-4-4:2012, ± 1KV
	Harmonic Current Disturbance	Meeting EN61000-3-2:2014, Class A
		Meet all requirements of
		UL/CUL60950
		IEC/EN60950
	Cafoty Ctandards	IEC/EN60335
	Safety Standards	IEC/EN61558-2-16
		CE,VDE,And ENEC Mark
		VDE Approval No. 40034334
		UL Approval No. E345767
Reliability Requirement	MTBF	Calculated by MIL-HDBK-217-F2
		550K Hours Min. @230VAC input, 25deg.C
	Burn-In Test	The unit shall be burned in for 2~ 5hours under 230Vac
		input and DC with full load at an ambient temperature
		of 30~45 degrees C
Net Weight	About 30 grams per product unit	

This product meet to RoHS standard

Guarantee

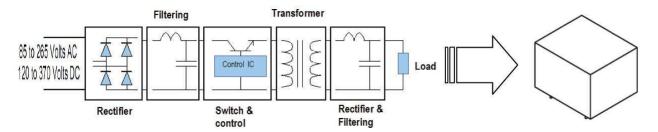




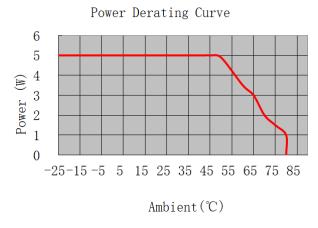
47000 SERIES

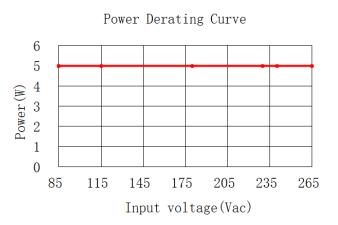
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SCHEMATIC



DERATING GRAPH (Typically:47154)





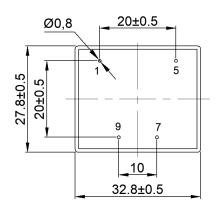
DIMENSIONS And PINOUT 4 PINS

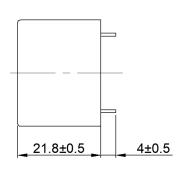
PRI:

Pins 1 – 5: AC Or DC Input

SEC:

Pin 7 : DC Output +V Pin 9 : DC Output 0V





View From Pins Side