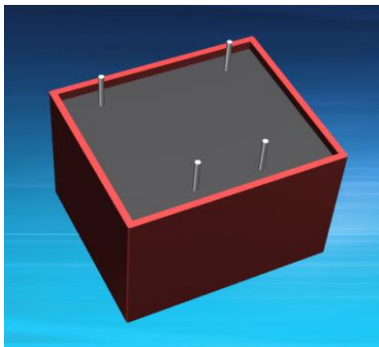


# ONE OUTPUT 2.5 TO 5W - REGULATED



Power Supplies

## 2.5 TO 5W SERIES



## MAIN FEATURES:

- 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
- High Energetic Efficiency: Meets Requirements Of Energy Star and EC Code Of Conduct
- Encapsulated Design and same Footprint as an EI30 Transformer: Upgrade your Application without redesign the PCB
- Safety : Meets All Requirements of IEC/EN61558-2-16, IEC/EN60335, IEC/EN62368, UL/CUL60950,
- Materials : Uses UL 94-VO Plastic And Resin
- EMC: Conducted and radiated emission 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



## DATA SHEET

Reference	(DC Volts)	Output current (DC mA)	Output Power (W)	Efficiency (%)	Ta (°C)
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
<b>47150 Series</b>					
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 voltage are available upon request.**

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

The information contained in this document is subject to change without notice.

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# ONE OUTPUT 2.5 TO 5W - REGULATED



Power Supplies

## 2.5 TO 5W SERIES

Model : 2.5 To 5 Watt		Specifications
AC Input Characteristics	Rated AC Input Voltage	100~240 VAC or 140VDC-340VDC
	AC Input Voltage Range	85~265VAC or 120VDC-370VDC
	AC Input Frequency	47Hz~63Hz
	Rated AC Input Frequency	50/60Hz
	Input Current	0.2A Max@85VAC~265VAC, at full load
	Standby Power	0.2W Max (Meets 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, at nominal line (The measuring will be terminated with a 47µF AL E-Cap and a 0.1µF Ceramic-Cap. An oscilloscope set at 20MHz bandwidth)
	Dynamic Response	The output voltage shall not exceed ± 10% rated output voltage @ 10% ← → 90 % Load change, 1A/µS, 1KHz 50% duty cycle
	Hold Up Time	5mS min@ 100 VAC~240VAC, DC output with full load
	Turn On Delay	2S max @ 85VAC~265VAC input and DC output with full load
	Rise Time	50ms max @ 85VAC~265VAC input and DC output with full load
	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
	Efficiency	See table (Meets Requirements Of Energy Star And EC Code Of Conduct)

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# ONE OUTPUT 2.5 TO 5W - REGULATED



Power Supplies

## 2.5 TO 5W SERIES

Protection Characteristics	Over Current Protection	The power supply shall automatic protection. The power supply shall auto-recovery normal operations after the deformations is removed. No excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Output Short Circuit Protection	The power supply shall with stand 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.
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	Meets EN55032,EN55014, Class B. under 3dB margin
	Conduction	Meets EN55032,EN55014, Class B. under 3dB margin
	Power Clamp Radiation	Meets EN55014-1:2006+A1:2009+A2:2011
	Lightning Surge	Meets IEC61000-4-5:2014,+1KV (line to line) <i>Note :(surge level can be extended to 6KV with an external circuit – please refer to MYRRA’s website and catalogue for MYRRA SMPS application notes)</i>
	Electrical Fast Transient	Meets IEC61000-4-4 : 2012, ± 1KV
	Harmonic Current Disturbance	Meeting EN61000-3-2:2014, Class A

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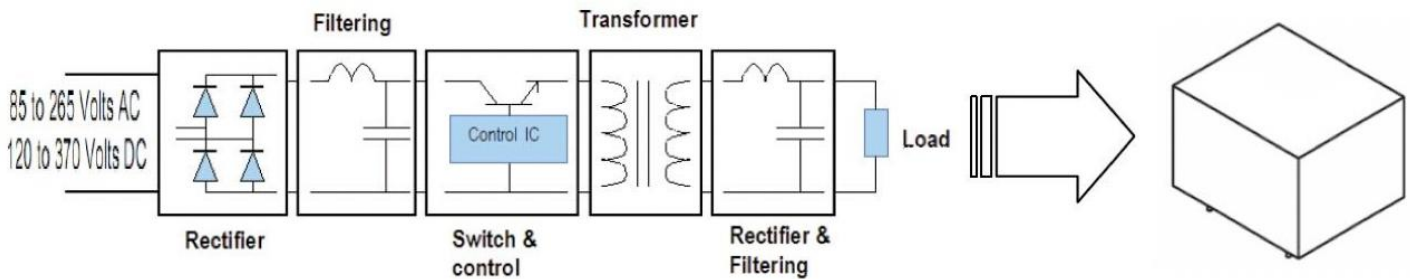
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# ONE OUTPUT 2.5 TO 5W - REGULATED

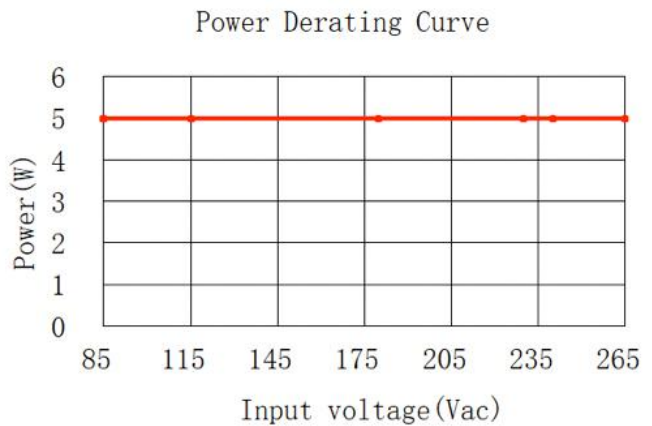
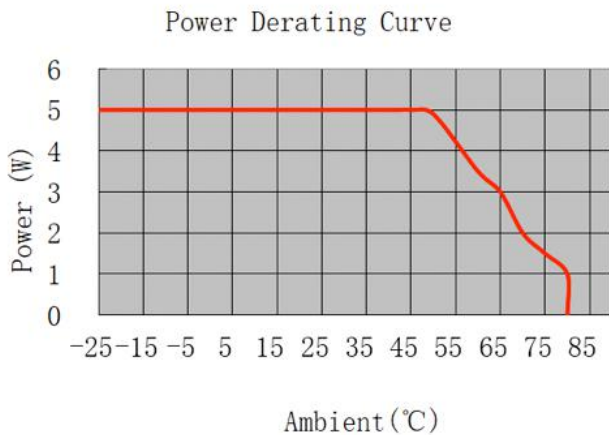


Power Supplies

## SCHEMATIC

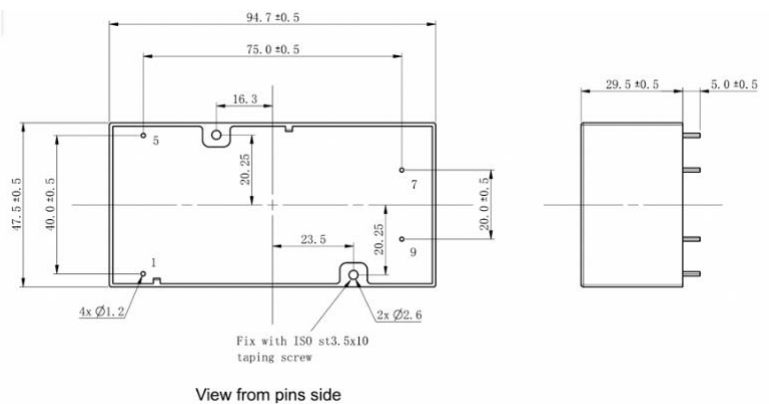


## DERATING GRAPH (TYPICALLY 12V TYPE)



## DIMENSIONS AND PINOUT 4 PINS

- PRI:
- Pins 1-5: AC or DC Input
- SEC:
- Pin 7 : DC Output +V
- Pin 9 : DC Output 0V



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