

MAIN FEATURES:

- **7.5W 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 < 0.15W**
- **Better Energetic Efficiency : Meet Requirements Of Energy Star And EC Code Of Conduct**
- **Encapsulated Design And Same Footprint As EI38 Transformer: Upgrade Your Application Without Redesign Of PCB**
- **Safety :Meets IEC/EN61558-2-16,IEC/EN60950,IEC/EN60335, UL/CUL60950,CE,VDE,ENEC Mark**
- **Materials : Uses UL 94-V0 Plastic And Resin**
- **EMC : Conducted And Radiated Emissions Conform To EN55032,EN55014 And FCC Part 15, CLASS B**
- **Immunity Conform To EN61000-3-3,IEC61000-4-2, IEC61000-4-3,IEC61000-4-4,IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11**

Part No	Power Rating Watts	Output Voltage (VDC)	Output Current (mA)	Ambient Temp. (°C)	Efficiency Typical	Input Range
47206	7.5	3.3	2270	50	>74%@230VAC	85VAC-265VAC (120VDC-370VDC)
47200	7.5	5	1500	70	>77%@230VAC	
47201	7.5	9	830	70	>80%@230VAC	
47202	7.5	12	625	70	>82%@230VAC	
47203	7.5	15	500	70		
47204	7.5	18	420	70		
47205	7.5	24	310	70		

Note: Other Output Voltages Are Available Upon Request

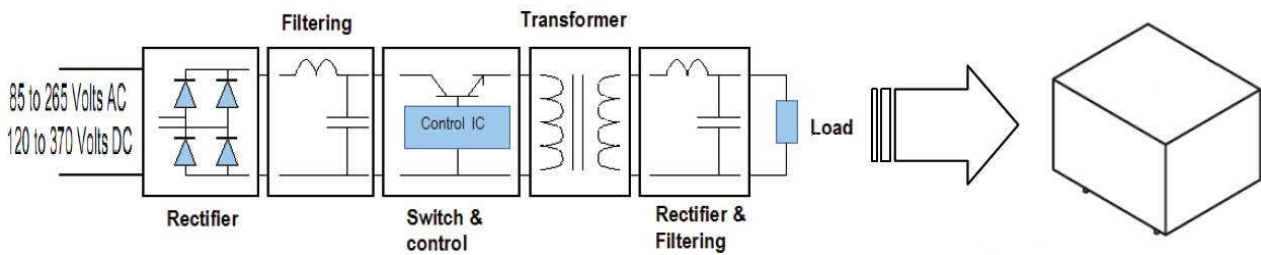
Model: 7.5 Watt		Specification
AC Input Characteristics	Rated input Voltage	100~240Vac Or 140VDC-340VDC
	Input Voltage Range	85~265Vac Or 120VDC-370VDC
	AC Input Frequency Range	47Hz~63Hz
	Rated AC Input Frequency	50/60Hz
	Input Current	0.3A Max@85Vac~265Vac, at full load
	Input Inrush Current	40A Max @85Vac~265Vac input, cold start, full load
	Standby Power	0.15W Max((Meet Requirements Of Energy Star And EC Code Of Conduct)
DC Output Characteristics	Output Voltage Accuracy	± 2% (5V,9V,12V,15V,18V,24V Types) ± 3%(3.3V Type)
	Output Voltage Line Regulation	± 0.5%
	Output Voltage Load Regulation	± 1%(5V,9V,12V,15V,18V,24V Types) ± 3%(3.3V Type)
	Ripple & Noise	Max 180mVp-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 ± 10% rated output voltage @ 10%←→90% Load change, 1A/uS , 1KHz 50% duty cycle
	Overshoot	The output voltage shall not exceed +10% rated output voltage @ Power on and 85Vac~265Vac input, and DC with full load
	Undershoot	The output voltage shall not exceed -10% 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	3S max @ 85Vac~265Vac input and DC output with full load
	Rise Time	50ms Max @ 85Vac~265Vac input and DC output with full load
	Efficiency	See page 1 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
Environmental	Operation Temperature	-20°C ~ +Ta (see page 1 table)
	Operation Humidity	10~ 90% RH(No Condensing) @ full load
	Storage Temperature	-40°C~ +85°C
	Storage Humidity	5%~95%
	Cooling Method	Ordinary or thermostat
Safety & EMC Requirement	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 sec .
	Radiation	Meeting EN55032,EN55014,FCC part 15, Class B. under 3dB margin
	Conduction	Meeting EN55032,EN55014, FCC part 15,Class B. under 3dB margin
	Lightning Surge	Meeting IEC61000-4-5:2014, ±1KV

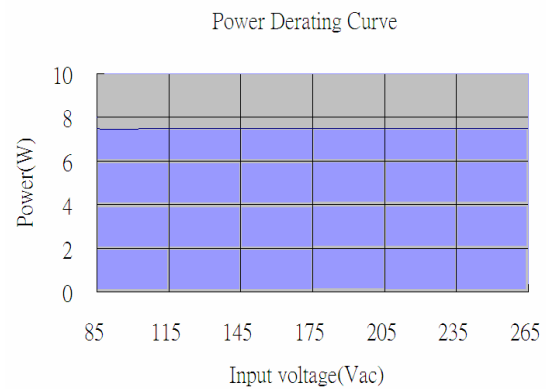
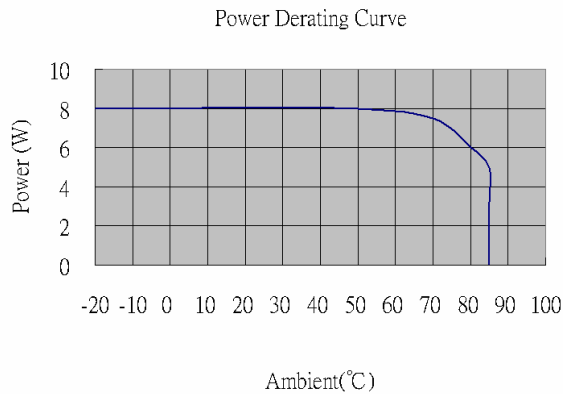
	Power Clamp Radiation	Meeting EN55014-1:2006+A1:2009+A2:2011
	Electrical Fast Transient	Meeting IEC61000-4-4:2012, $\pm 1\text{KV}$
	Voltage Dips And Interruptions	Meeting IEC61000-4-11:2004
	Voltage Fluctuation And Flicker	Meeting EN61000-3-3:2013
	Electrostatic Discharge	Meeting IEC61000-4-2:2008 Contact Discharge $\pm 4\text{KV}$, Air Discharge $\pm 8\text{KV}$
	RF Field Strength Susceptibility	Meeting IEC61000-4-3:2006+A1:2007+A2:2010
	Conducted Susceptibility	Meeting IEC61000-4-6:2013
	Power Frequency Magnetic Field Susceptibility	Meeting IEC61000-4-8:2009
	Safety Standards	Meet all requirements of UL/CUL60950 IEC/EN60950 IEC/EN60335 IEC/EN61558-2-16 CE,VDE,And ENEC Mark VDE Approval No. 40041563 UL Approval No.E345767
Reliability Requirement	MTBF	Calculated by MIL-HDBK-217-F2 5V,9V,12V,15V,18V,24V Types: 200K Hours Min. @230VAC input, 70deg.C 3.3V type: 200K Hours Min. @230VAC input, 50deg.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
Mechanical	Physical Size	The units do not including PINs of input and output, and dimension is : (L)41.0*(W)35.0*(H)24.5 \pm 0.5mm (see appearance drawing)

	Net Weight	About 56 grams per product unit
Guarantee	This product meet to RoHS standard	

SCHEMATIC



DERATING GRAPH



DIMENSIONS And PINOUT

4 PINS

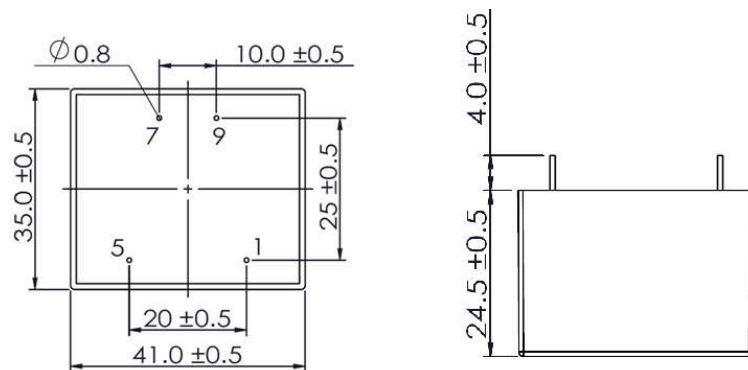
PRI:

Pins 1 – 5: AC Or DC Input

SEC:

Pin 7 : DC Output +V

Pin 9 : DC Output 0V



(View From Pins Side)