

LPS ITE product



### **MAIN FEATURES:**

- 7.5W Small Compact Size PCB Mount
- $\circ~$  Single Output Regulated
- O Output Range : 3.3VDC 24VDC
- O Input Range : 85VAC 265VAC/47 63Hz Or 120VDC 370VDC
- Very Low Standby Power Consumption < 0.15W
- Better Energetic Efficiency : Meets the Requirements Of Energy Star and EC Code Of Conduct
- Encapsulated Design And Same Footprint As EI38 Transformer:
  Upgrade your application without redesign the PCB
- Safety : EN61558-2-16,EN60950,EN60335,UL/CUL60950,CE, VDE,ENEC
- O Materials : Uses UL 94-V0 Plastic and Resin
- EMC : Conducted And Radiated Emissions conform To EN55014
  CLASS B , EN55022 CLASS B And FCC Part 15
- O Immunity Conform to EN61000-4-5, EN61000-3-3, EN61000-4-4

Part No	Power Rating Watts	Output Voltage (VDC)	Output Current (mA)	Ambient Temp. (℃)	Efficiency Typical	Input Range
47206	7.5	3.3	2270	70	>74%@230VAC	
47200	7.5	5	1500	70	>76%@230VAC	
47201	7.5	9	830	70	>80%@230VAC	
47202	7.5	12	625	70		85VAC-265VAC (120VDC-370VDC)
47203	7.5	15	500	70	>82%@230VAC	
47204	7.5	18	420	70		
47205	7.5	24	310	70		
Note: Other Output Voltages Are Available Upon Request						



# 7.5 Watt AC-DC Switch Power Supply

M	odel: 7.5 Watt	Specification
	Rated AC input Voltage	100~240Vac Or 140VDC-340VDC
	AC Input Voltage Range	85~265Vac Or 120VDC-370VDC
	AC Input Frequency Range	47Hz~63Hz
AC Input Characteristics	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 COC level V, stage I)
	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 at nominal line (The measuring will be terminated with a 47uF AL E-Cap and a 0.1uF Cer-Cap. An oscilloscope set at 20MHz bandwidth)
DC Output Characteristics	Dynamic Response	The output voltage shall not exceed +10% rated output voltage @ $10\% \leftrightarrow 90\%$ 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



# 7.5 Watt AC-DC Switch Power Supply

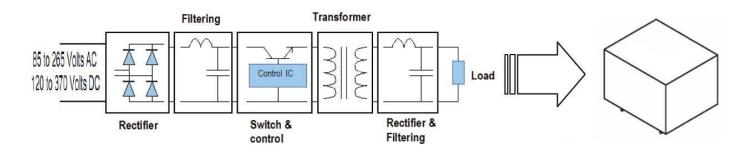
	Rise Time	50ms Max @ 85Vac~265Vac input and DC output with full load	
	Efficiency	Average efficiency meets Energy Star level VI and COC level V stage I	
Protection Characteristics	Over Current Protection	The power supply shall automatic protect. The power supply shall auto-recover normal operation after 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 150±10°C	
	Operation Temperature	-20°C ~ 70°C.	
	Operation Humidity	10~ 90% RH(No Condensing) @ full load	
Environmental	Storage Temperature	-40°C~ +85°C	
	Storage Humidity	5%~95%	
	Cooling Method	Ordinary or thermostat	
	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 sec .	
Safety & EMC Requirement	Radiation	Meets EN55022,EN55014,FCC, part 15, Class B. under 3dB margin	
	Conduction	Meets EN55022,EN55014, FCC, part 15,Class B. under 3dB margin	
	Power Clamp Radiation	Meets EN 55014-1: 2006+A1: 2009+A2:2011	
	Lightning Surge	EN61000-4-5:2006, Level II. 1KV	



## 7.5 Watt AC-DC Switch Power Supply

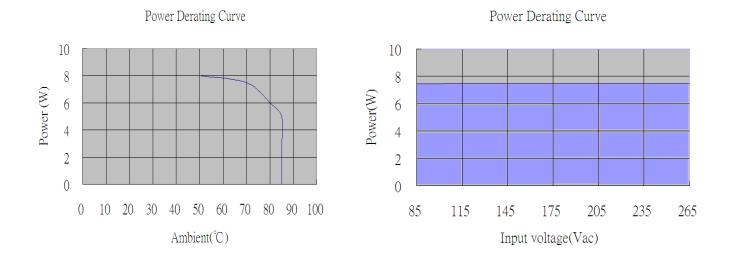
	Electric Fast Transient	Meets EN61000-4-4:2012, 2KV	
	Voltage Dips And Interruptions	Meets EN61000-4-11:2004	
	Voltage Fluctuation And Flicker	Meets EN61000-3-3:2013	
		Meets all requirements of	
	Safety Standards	UL/CUL60950	
		EN60950	
		EN60335	
		EN61558-2-16	
		CE,VDE,And ENEC Mark	
		200K Hours Min. @230VAC input, 70deg.C	
	MTBF	350K Hours Min. @230VAC input, 25deg.C	
Reliability		calculated by MIL-HDBK-217-F2	
Requirement	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	
		The units do not including PINs of input and output,	
	Physical Size	and dimension is	
Mechanical		(L)41.0*(W)35.0*(H)24.5± 0.5mm	
Wiethanitai		(see appearance drawing)	
	Net Weight	About 40 grams per product unit	
Guarantee	This product meet to RoHS standard		

## SCHEMATIC





## **DERATING GRAPH**



#### **DIMENSIONS And PINOUT**

4 PINS

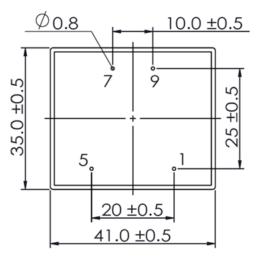
PRI:

Pins 1 – 5: AC Or DC Input

SEC:

Pin 7 : DC Output +V

Pin 9 : DC Output 0V



(View From Pins Side)

