

# PSU-500 Series

500 Watt Switching Power Supply  
Single Output Models



## Product Features:

- Designed for Audio Video Equipment Applications
- Universal AC Input
- Active PFC for EN61000-3-2 Class B Compliance
- High Efficiency Operation 88%
- Low-Cost Open Frame Design
- 350-500 Watts Convection Cooled Design Operation
- International Safety Approvals Audio / Video Equipment
- International EMI Class B



## INPUT SPECIFICATIONS:

<b>VOLTAGE</b>	Universal VAC Input ( 90 ~ 264VAC )
<b>FREQUENCY</b>	47-63Hz
<b>INRUSH</b>	<40A @ 230VAC Full Load
<b>CURRENT</b>	3A @ 230 VAC (Max Continous)
<b>PROTECTION</b>	Single 8A Fuse / 250 VAC
<b>LEAKAGE</b>	≤.75mA Max @ 253 VAC
<b>HOLD-UP</b>	16ms Minimum (230 VAC & Full Load)
<b>EFFICIENCY</b>	≥88% @ 230VAC Full Load
<b>HARMONICS</b>	EN61000-3-2 Class D Compliant (>98 PF)

## OUTPUT SPECIFICATIONS:

<b>LINE REGULATION</b>	±.5% Max over entire input range
<b>LOAD REGULATION</b>	±.5% maximum
<b>RIPPLE</b>	1% pk-k max, (20MHz)
<b>SETPOINT ACCURACY</b>	±1%
<b>EXCURSION</b>	±5% Max for 25% Step Load
<b>RECOVERY</b>	100ms max
<b>OVER CURRENT PROTECTION</b>	15A (Auto-Recovery)
<b>OVER VOLTAGE PROTECTION</b>	105-120% (recycle input to reset)

## STATUS & CONTROL SPECIFICATIONS:

<b>RC OPTION</b>	Remote On/Off active low.
<b>VAUX</b>	5V 350mA Auxillary Output
<b>PWR GOOD</b>	Active Low Open Collector

## GENERAL SPECIFICATIONS:

<b>OPERATING TEMPERATURE</b>	0~45°C Full Load Operation
<b>STORAGE TEMPERATURE</b>	-40 ~ +85°C
<b>OPERATING HUMIDITY</b>	10-95% (non-condensing)
<b>STORAGE HUMIDITY</b>	5-95% (non-condensing)
<b>COOLING</b>	Model Dependent, see output table
<b>VIBRATION</b>	10-55Hz, 2G, 3Min Period, / 60 min each (3 axes)
<b>SHOCK</b>	20G Peak Acceleration
<b>RELIABILITY</b>	>100k Hours (Full Load & 25°C Operation)
<b>SIZE</b>	130 x 230 x 38.1mm / 5.11" x 9.05" x 1.5" (W x D x H)

## EMISSIONS:

<b>EMISSIONS</b>	EN55022 Level B (Conducted)
<b>ELECTROSTATIC DISCHARGE</b>	EN61000-4-2, 4kV Contact / 8kV Air
<b>RADITED SUSCEPTIBILITY</b>	EN61000-4-3, 26-1000MHz, 10V/M, 80%AM
<b>EFT / BURSTS</b>	EN61000-4-4, 2kV
<b>SURGES</b>	EN61000-4-5, 2kV Earth, 1kV Line-Line
<b>CONDUCTED IMMUNITY</b>	EN61000-4-6, 0.15-800MHz, 10V 80%
<b>VOLTAGE DIPS</b>	EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
<b>VOLTAGE INTERRUPTIONS</b>	EN61000-4-11, 95% reduction, 5ms
<b>FLUCTUATIONS / FLICKER</b>	EN61000-3-3

## SAFETY STANDARDS:

<b>UL</b>	UL/cUL60065 (Audio / Video Equipment)
<b>EN</b>	EN60065 (Audio / Video Equipment)
<b>CB</b>	IEC 60065

## North America

DongAh Elecomm USA  
1300 E Lookout Dr, #210,  
Richardson TX 75082  
Phone: (972) 497-9990  
Fax: (972) 497-9991  
E-mail: sales@dongahusa.com

## Asia

DongAh Elecomm Corp. (Headquarters)  
167 Namgok-ri, Yangji-myun,  
Yongin-si Kyunggi-do 449-820 Korea  
Tel: 82-31-330-8805  
Fax: 82-31-330-8889  
E-mail: julian@dongahusa.com (Director)



# DONGAH ELECOMM

[www.dongahusa.com](http://www.dongahusa.com)

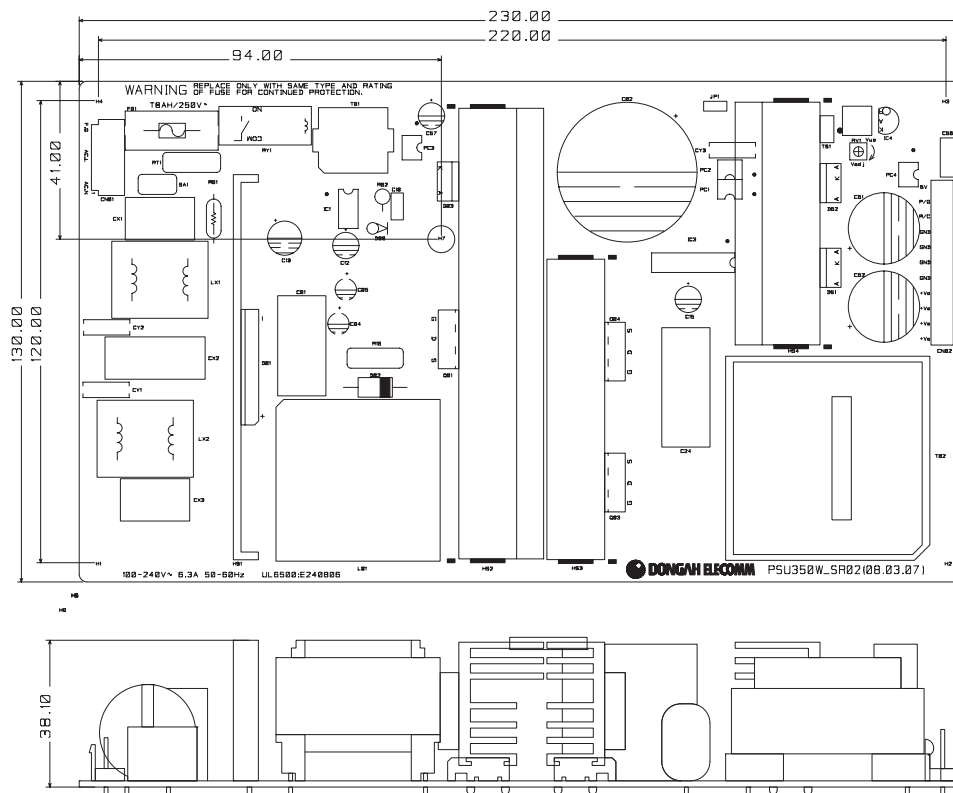
# PSU-500 Series

500 Watt Switching Power Supply  
Single Output Models

## Output Models:

PSU-500-5	5V	80.00A	30 cfm for full Load / 70A convection
PSU-500-12	12V	41.67	30 cfm for full Load / 29.17A convection
PSU-500-13.8	13.8V	36.23	30 cfm for full Load / 25.36A convection
PSU-500-15	15V	33.33A	30 cfm for full Load / 23.33A convection
PSU-500-24	24V	20.83A	20 cfm for full Load / 14.58A convection
PSU-500-36	36V	13.89A	20 cfm for full Load / 9.72A convection
PSU-500-48	48V	10.41A	convection cooled
PSU-500-50	50V	10.00A	convection cooled

## Mechanical:



Input Connector: 0359790310(Equivalent Alternative Part: YW396-05AV).  
Mated with 0359770500  
(Equivalent Alternative Part: YH396-05V)

Neutral	Pin#1
Live	Pin#2
Chassis	Pin#3

Output connector: Molex 35978-1110  
Mated Connector: 35977-1100

Pin Assignment:

Vo(+)	1-4
Vo(-)	5-8
R/C	9
P/G	10
5V	11

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E-mail: julian@dongahusa.com (Director)