

# PSU40T-3512

40 Watt 2" x 4"  
AC/DC Converter

## Product Features:

- Universal Input (90 ~ 264V AC)
- Meets FCC & EN Class B EMI
- World Wide Safety Approval
- Compact Size 2" x 4"
- Low Profile 1.2"
- Convection Cooled Full Power
- International Safety Approvals
- Class B Emissions
- Safety Certifications Pending, for Full Product Family



## INPUT SPECIFICATIONS:

<b>VOLTAGE</b>	Universal VAC Input ( 90 ~ 264VAC)
<b>FREQUENCY</b>	47-63Hz
<b>INRUSH</b>	25A @ 115 VAC / 50A @230VAC Input Range (Max Cold)
<b>CURRENT</b>	1.2A @ 115 VAC / 500mA @ 230 VAC (Max Continuous)
<b>PROTECTION</b>	Single 3.1 A Fuse / 250 VAC
<b>LEAKAGE</b>	750uA Max @ 264 VAC
<b>HOLD-UP</b>	16ms @ 115 VAC Full Load)
<b>EFFICIENCY</b>	80% Typical

## OUTPUT SPECIFICATIONS:

<b>ADJUSTMENT RANGE</b>	None
<b>MINIMUM LOAD</b>	See Table
<b>LINE REGULATION</b>	±1% Max over entire input range
<b>LOAD REGULATION</b>	±1% maximum
<b>RIPPLE</b>	±1%
<b>SETPOINT ACCURACY</b>	±1%
<b>EXCURSION</b>	±5% Max for 25% Step Load
<b>RECOVERY</b>	100ms max
<b>OVER CURRENT</b>	115-135% (Auto-Recovery)
<b>OVER VOLTAGE PROTECTION</b>	105-115% (recycle input to reset)
<b>SHORT CIRCUIT</b>	Yes (Auto-Recovery)

## GENERAL SPECIFICATIONS:

<b>OP TEMP.</b>	-20 ~ +70°C (Derate 2.5% per °C above 50°C)
<b>STORE TEMP</b>	-40 ~ +85°C
<b>COOLING</b>	Convection
<b>HUMIDITY</b>	5-95% (non-condensing)
<b>VIBRATION</b>	10-55Hz, 2G, 3Min Period, / 60 min each (3 axes)
<b>SHOCK</b>	20G Peak Acceleration
<b>RELIABILITY</b>	>100,000 Hours (Per Mil STD 217)



## 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 &amp; FLICKER</b>	EN61000-3-3

## SAFETY STANDARDS:

<b>UL /CUL</b>	60950-1
<b>CE MARK</b>	Low Voltage Directive

## 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

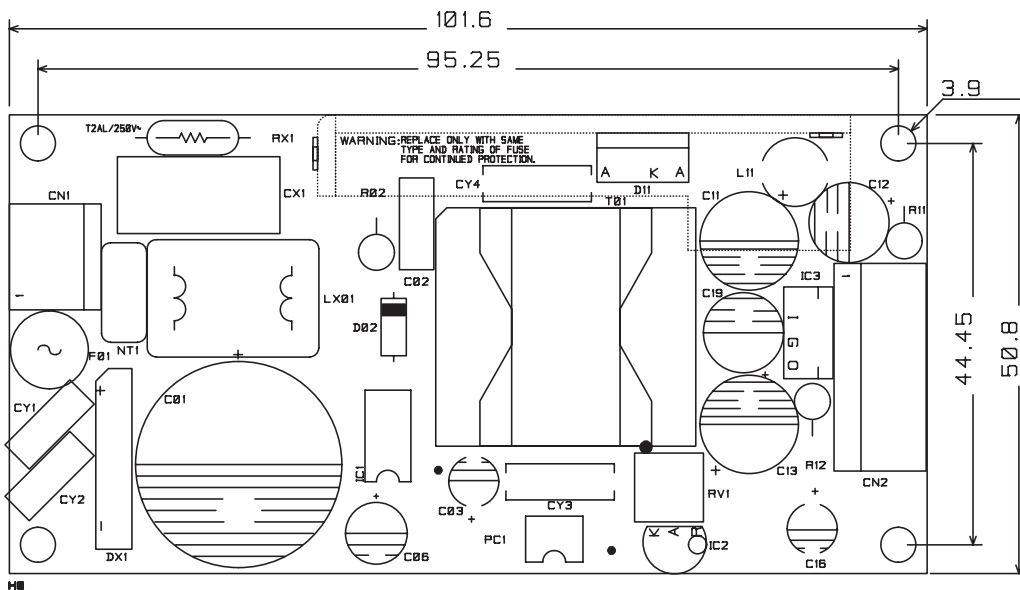
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## Output Models:

PSU40T-3512      3.3V 6.0A      5V 1.5A      12A 0.5A

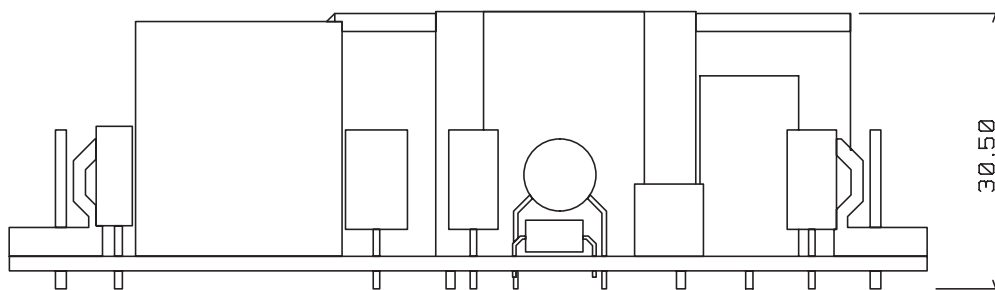


AC Input Connector  
Molex 09-65-2029

Pin	Function
1	Line
2	Neutral

DC Output Connector :  
Molex 09-65-2068

Pin	Function
1	+3.3V
2	+3.3V
3	Gnd
4	Gnd
5	+12V
6	+5V



CAUTION: The output of this SMPS unit has a hazardous energy level.  
To avoid energy hazard from its output, user accessible parts on end-product must be protected by a suitable prevention.

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