



# ETA-USA

## HIGH QUALITY SWITCHING POWER SUPPLIES

AC/DC DESKTOP ADAPTER  
AC INPUT 90~264V  
SINGLE CHANNEL OUTPUT  
100 WATTS

## DTD100 series



### General Description

The DTD series is a desktop adapter perfect for those who are environmentally conscious. It is energy star efficient (class V) with special circuitry to protect against overvoltage, overcurrent, and short circuits.

170L×85W×44H mm



RoHS



BAUART  
GEPRÜFT  
TYPE  
APPROVED

### Input

<b>Input Voltage:</b>	AC100-240V
<b>Input Voltage Range:</b>	AC85-264V, DC120-350V
<b>Input Current (rms):</b>	2.5A@90VAC, 1.25A@264VAC max
<b>Input Frequency Range:</b>	47-63Hz
<b>Phase:</b>	Single
<b>Inrush Current: *1</b>	<75A(max.) at AC115V <150A(max.) at AC230V, cold start
<b>Max Power (W):</b>	100

### Features

1. Small-sized and lightweight
2. High efficiency
3. Over current protection
4. Over voltage protection
5. Short circuit protection
6. No power load consumption <500mW
7. Two (2) year warranty
8. CEC, ERP, EISA level V requirements met

### Options



ETA USA

16170 Vineyard Blvd. Suite 180, Morgan Hill, CA 95037  
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Output Characteristic	Unit	Models					
		DTD100-12SX-F-W-C2	DTD100-16SX-F-W-C2	DTD100-19SX-F-W-C2	DTD100-24SX-F-W-C2	DTD100-36SX-F-W-C2	DTD100-48SX-F-W-C2
Output Voltage	Vdc	12	16	19	24	36	48
Output Current	A	8.34	6.25	5.27	4.17	2.78	2.09
Ripple & Noise(max) *5	mVpp	240	320	380	480	480	480
Hold up time	mS	>20mS at AC115Vin, full load					
<b>Regulation</b>							
a.O/P Regulation [max]	mV	- 2/+5%	- 2/+5%	- 2/+5%	- 2/+5%	- 2/+5%	- 2/+5%

**\*Other Voltages available upon requests: 12-26V, 33-39V, and 44-52V**

<b>Efficiency *1</b>	<b>%</b>	<b>87% average, 115/230VAC ; Class V Energy Star</b>					
<b>Power Factor *1</b>		<b>&gt;0.95 at 115VAC, &gt;0.90 at 230VAC full load</b>					

Conditions:

\*1 Rated input and Rated output

\*2 at Output current quick change 25% to 75%

\*3 At 100% load (convection cooling)

\*4 Under worst case scenario, can vary with cable length

\*5 Measured with oscilloscope 20MHz bandwidth by 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.



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<b>Environmental Specification</b>	
Operating Temperature*3	0 to +60 °C
Derating Curve	-2.5%/°C (from 41°C to 60°C)
Operating Humidity	20~90[%RH] (non-condensing)
Storage Temperature	-10 to +85 °C
Storage Humidity	less than 85%/RH(non-condensing)
Cooling	Convection
<b>Environmental Agencies</b>	
Line Conducted Noise [EMI]	Built to meet CE, FCC Class B ,CISPR22 Class B, EN55022 Class B
Safety	UL: UL60950-1 , CSA 22.260950-1, TUV EN60950-1, CB IEC 60950-1
<b>Function/Protection</b>	
Over current Protection	Auto Recovery
Over voltage Protection	Shutdown and latch off, AC recycle
Short circuit protection	Auto Recovery
Remote Control	Not available
Series Operation	Not available
Parallel Operation	Not available
<b>Mechanical</b>	
Dimension [mm]	170L x 85W x 44H (6.69" x 3.35" x 1.73")
Weight [g] (typical)	780g (1.72 lbs)
MTBF	>140,000 hours at full load and 25°C ambient



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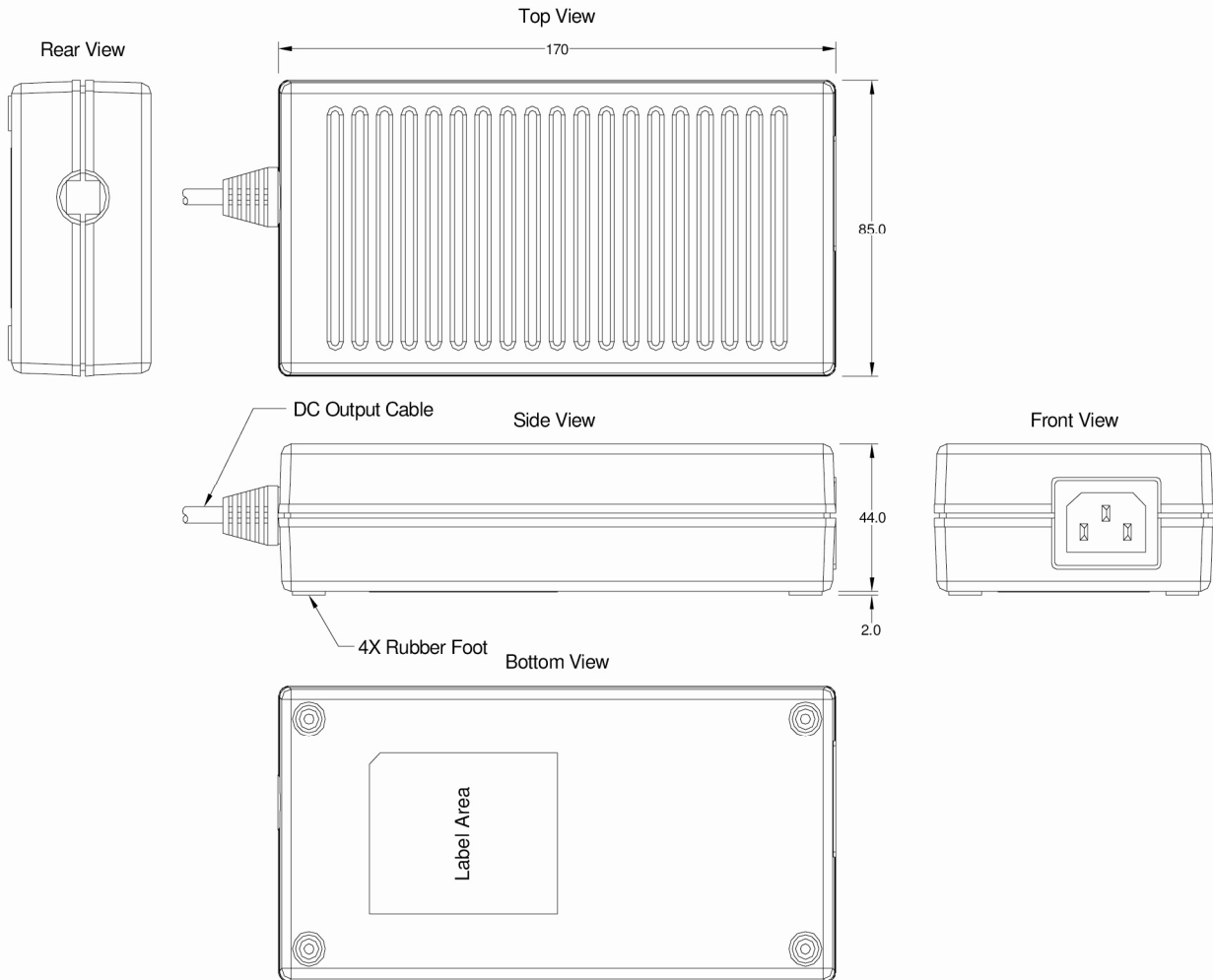


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## MECHANICAL DIMENSIONS



- Note:
1. AC Inlet : IEC320-C14
  2. Plastic Case Color : Black
  3. Tolerance :  $\pm 0.5\text{mm}$
  4. Unit : mm

### Standard Output Cable:

1. AWM 1571 #14 AWG/1C + Shielding, UL 80 °C 30V VW-1, 1050mm (12-24V)
2. AWM 1185 #16 AWG/1C + Shielding, UL 80 °C 300V VW-1, 1050 mm (36~48V)
3. Depends on customer requirements



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