



## 160 Watt Switching Adapter with PFC Desk Top, Series DVTRH160A



### Features

- Universal Input: 90 – 264Vac
- IEC320/C14 Compact Size
- Over Voltage Protection
- Continuous Short Circuit Protection
- No Load Power Consumption <150mW
- Low Leakage Current <90µA
- Meets EN60335-1
- Approved IEC/EN/UL62368-1
- Meet CoC Tier 2 & ErP Level VI
- CE EN55032 Class B & CISPR/FCC Class B
  - (12V: Output Cable Length ≤ 950mm, DIN Power Plug)
  - (24V: Output Cable Length ≤ 1220mm, DC Jack)
  - (28V-56V: Output Cable Length ≤ 1800mm, DC Jack )

MODEL NUMBER	OUTPUT VOLTAGE [ VDC ]	OUTPUT CURRENT [ A ]	RIPPLE & NOISE [ % ] (Note1)	VOLTAGE SETPOINT [ % ] (Note2)	LINE REGULATION [ % ] (Note3)	LOAD REGULATION [ % ] (Note4)	EFF. TYP. [ % ] (Note5)
TRH160A120	12	12,5	1	±2	±1	±4	91
TRH160A240	24	6,66	1	±2	±1	±4	92
TRH160A280	28	5,7	1	±2	±1	±4	92
TRH160A300	30	5,31	1	±2	±1	±4	92
TRH160A360	36	4,44	1	±2	±1	±4	92
TRH160A480	48	3,33	1	±2	±1	±4	93
TRH160A560	56	2,85	1	±2	±1	±4	93

#### NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
2. Voltage setpoint at 60% full load.
3. Line regulation measured from 100Vac to 240Vac with full load.
4. Load regulation measured from 60% to 100% full load and from 60% to 20% full load (60% +/- 40% full load).
5. Efficiency measured at 75% load at 230Vac.
6. Typical at 25°C nominal line and 75% load, unless otherwise specified.

#### Ordering information

TRH160AXXX - Model No.	XX DC Plug Type	E OVP E: with OVP	XX DC Cable Length and Type 471: 950mm with Ferrite Core 12: 1200mm with Ferrite Core 13: 1800mm with Ferrite Core *UL2464 Cable for all models
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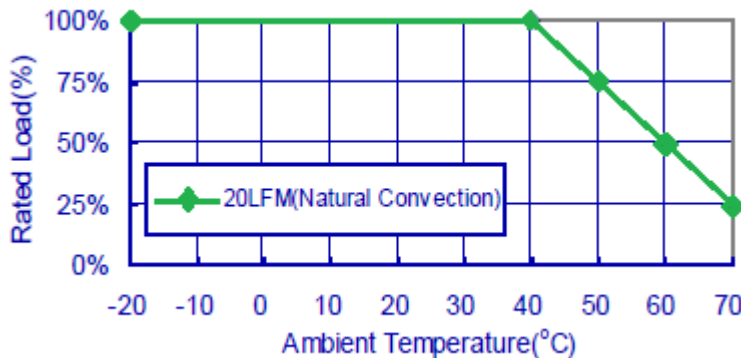
### INPUT SPECIFICATIONS:

Input Voltage Range ..... 90-264Vac  
 Frequency..... 47 to 63Hz  
 Input Current..... 100Vac/2,0 max. & 240Vac/1,0 max.  
 Inrush Current..... 120A max. @240Vac  
 Conducted EMI ..... CISPR/FCC Class B  
 Leakage Current..... 90µA max.

### OUTPUT SPECIFICATIONS:

Hold-up Time..... 25mS typ. @115Vac  
 Short Circuit Protection ..... Continuous ( Auto recovery )  
 Over Voltage Protection..... IC Component to Clamp  
 Temperature Coefficient ..... ±0,05%/°C max.

### DERATING CURVE:



### GENERAL SPECIFICATIONS:

Isolation Input to Output ..... 3000 VAC  
 Operating Temperature ( see Derating Curve )..... -20°C to +70°C  
 -30°C can be Start-Up  
 Storage Temperature Range ..... -40°C to +85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 110KHz typ.  
 Altitude ..... 5000m  
 MTBF MIL-HDBK-217F, Ta 25°C ..... 300Khrs min.  
 Life Time ( Ambient 40°C, 75% Load )..... 26Khrs min.  
 AC Inlet ..... IEC320/C14  
 Dimensions ..... 150x70x38mm (5,906x2,756x1,497 Inches)  
 Weight..... 575g

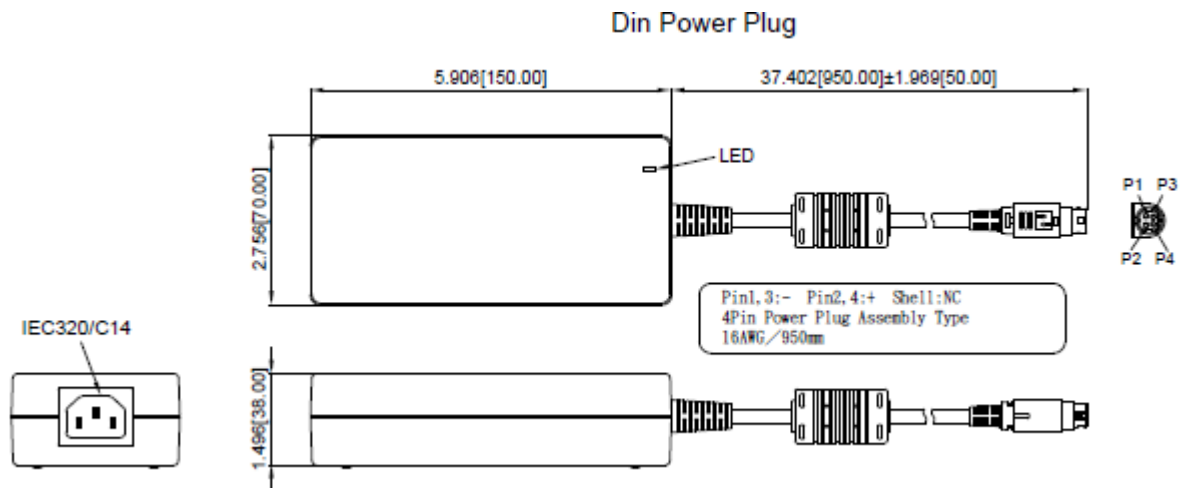
### SAFETY & EMC:

Emission & Immunity ..... EN55032 Class B, FCC Part15 Class B  
 EN61000-3-2, EN61000-3-3, EN55024, EN61204-3  
 Safety Approved..... Class I, IEC/EN/UL62368-1  
 Meet IEC/EN60335-1

# MECHANICAL SPECIFICATION

# Series DVTRH160A

All dimensions in Inches ( mm )  
 Tolerance: mm: x.xx=±0.5, Inches: x.xxx=±0.02



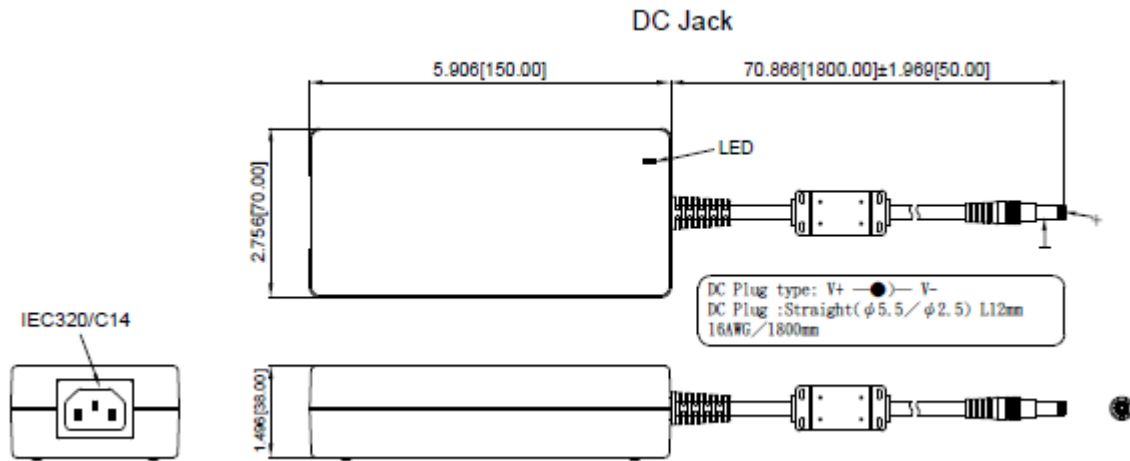
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