



## 100 Watt Switching Adapter with PFC Desk Top, Series DVTRH100A



### Features

- Universal Input: 90 – 264Vac
- Continuous Short Circuit Protection
- Active PFC Meets EN61000-3-2
- Conductive EMI Meets CISPR/FCC Class B
- No Load Power Consumption <150mW
- Over Voltage Protection
- Meet CoC Tier 2 & ErP Level VI  
(Output Cable Length ≤ 1800mm)  
( TRH100A120~150: Output Cable Length ≤ 1220mm )  
( TRH100A180~480: Output Cable Length ≤ 1800mm )

MODEL NUMBER	OUTPUT VOLTAGE [ VDC ]	OUTPUT CURRENT [ A ]	MIN. LOAD [ A ]	RIPPLE & NOISE [ % ] (Note1)	VOLTAGE SETPOINT [ % ] (Note2)	LINE REGULATION [ % ] (Note3)	LOAD REGULATION [ % ] (Note4)	EFF. TYP. [ % ] (Note5)
TRH100A120	12	8,34	0	1	±2	±1	±4	89
TRH100A135	13,5	7,33	0	1	±2	±1	±4	89
TRH100A150	15	6,67	0	1	±2	±1	±4	89
TRH100A180	18	5,56	0	1	±2	±1	±2	89
TRH100A190	19	5,26	0	1	±2	±1	±2	89
TRH100A240	24	4,17	0	1	±2	±1	±2	89
TRH100A280	28	3,54	0	1	±2	±1	±2	89
TRH100A360	36	2,78	0	1	±2	±1	±2	89
TRH100A480	48	2,1	0	1	±2	±1	±2	89

#### 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. Average Efficiency measured at 25%,50%,75%,100% load, Input Voltage 230Vac.
6. Inrush current at 120A Max./ 200us for AC turn on.
7. Typical at 25°C nominal line and 75% load, unless otherwise specified.

#### Ordering information

TRH100AXXX - Model No.	XX DC Plug Type	E OVP	XX DC Cable Length and Type
			11: 720mm with Ferrite Core
			12: 1200mm with Ferrite Core
			13: 1800mm with Ferrite Core
			14: 1000mm with Ferrite Core
			21: 720mm with two Ferrite Core
			22: 1220mm with two Ferrite Core
			23: 1800mm with two Ferrite Core
			*UL2464

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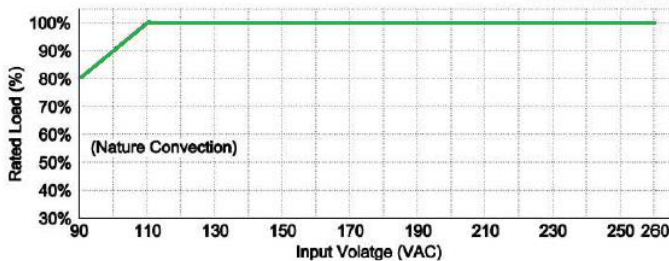
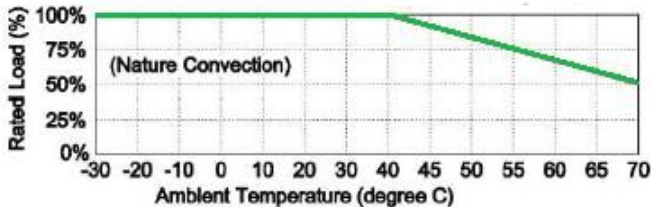
### INPUT SPECIFICATIONS:

Input Voltage Range ..... 90-264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current ..... 120A max. @240Vac  
 Conducted EMI ..... CISPR/FCC Class B  
 Leakage Current ..... 3,5mA max.

### OUTPUT SPECIFICATIONS:

Hold-up Time ..... 16mS typ. @ 115Vac  
 Short Circuit Protection ..... Continuous  
 Over Voltage Protection ..... YES

### DERATING CURVE:



### GENERAL SPECIFICATIONS:

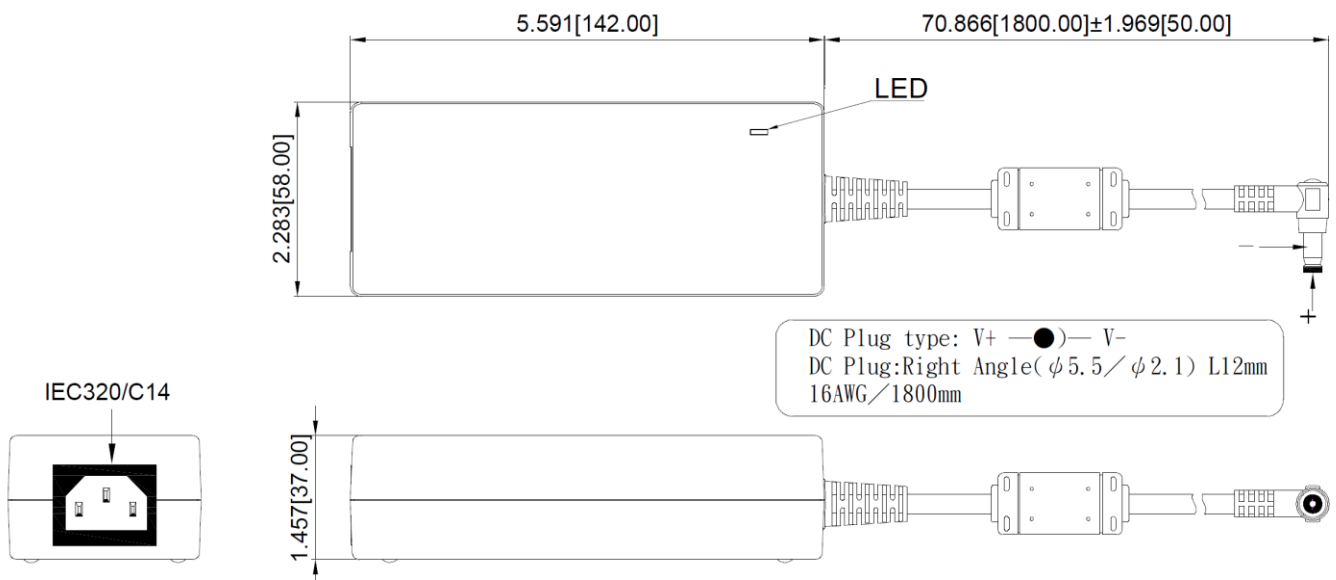
Isolation ..... Input to Output 4,242VDC  
 Operating Temperature.. -30°C to +70°C, 40°C to +70°C: -1,67%/°C  
 Storage Temperature Range ..... -40°C to +85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 65KHz typ.  
 Altitude ..... Sea Level to 5000m  
 MTBF MIL-HDBK-217F, Ta 25°C ..... 160Khrs min.  
 AC Inlet ..... IEC320/C14  
 Dimensions ..... 142x58x37mm (5,591x2,283x1,457 Inches)  
 Weight ..... 485g typ.

### SAFETY & EMC:

Emission & Immunity ..... EN55032 Class B, FCC Part15 Class B  
 EN61000-3-2, EN61000-3-3  
 EN55024, EN61204-3  
 Safety ..... Class I, IEC/EN/UL60950-1 / IEC/EN/UL62368-1

## MECHANICAL SPECIFICATION

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



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