



50 Watt Switching Adapter Desk Top, Series DVTRH50A



Features

- Universal Input Range 90 – 264Vac
- Meets EN55032 Class B and CISPR/FCC Class B
- Continuous Short Circuit Protection
- No Load Power Consumption <150mW
- Over Voltage Protection
- Meet CoC Tier 2 & DoE Level VI
- Approved IEC/EN/UL62368-1
(Output Cable Length \leq 1800mm)
(TRH50A120, TRH50A150: Output Cable Length \leq 1220mm)
(TRH50A180, TRH50A190: Output Cable Length \leq 1800mm 16AWG)

MODEL NUMBER	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT [A] MAX.	RIPPLE & NOISE [%] NOTE1	VOLTAGE ACCURACY [%] NOTE2	LINE REGULATION [%] NOTE3	LOAD REGULATION [%] NOTE4	EFF. [%] NOTE5
TRH50A120	12	4,2	1	± 2	± 1	± 3	89
TRH50A150	15	3,36	1	± 2	± 1	± 3	89
TRH50A180	18	2,8	1	± 2	± 1	± 2	89
TRH50A190	19	2,65	1	± 2	± 1	± 2	89
TRH50A240	24	2,1	1	± 2	± 1	± 2	89
TRH50A280	28	1,8	1	± 2	± 1	± 2	89
TRH50A360	36	1,4	1	± 2	± 1	± 2	89
TRH50A480	48	1,05	1	± 2	± 1	± 2	89

NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Voltage setpoint at 60% full load.
3. Line regulation measured from 100Vac to 240Vac full load.
4. Load regulation measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).
5. Average Efficiency measured at 25%,50%,75%,100% load and input voltage is 115Vac / 230Vac.
6. Typical at 25°C, nominal line and 60% load, unless otherwise specified.

Ordering information

TRH50AXXX - Model No.	XX DC Plug Type	E OVP	XX DC Cable Length and Type
			01: 720mm
			02: 1220mm
			03: 1800mm
			11: 720mm with Ferrite Core
			12: 1220mm with Ferrite Core
			13: 1800mm with Ferrite Core
			* 16AWG / UL1185 FOR 12V, 15V, 18V, 19V
			* 18AWG / UL 1185 FOR 24V, 28V, 36V, 48V

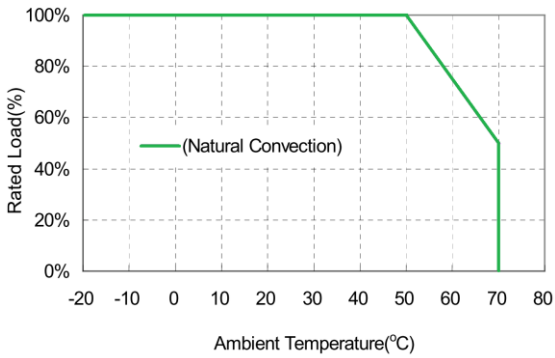
INPUT SPECIFICATIONS:

Input Voltage Range 90-264Vac
 Frequency 47 to 63Hz
 Input Current 1.2A max.
 Inrush Current Cold Start @ 25°C 100A max. @240Vac
 Leakage Current 3,5mA max.

OUTPUT SPECIFICATIONS:

Hold-up Time 8mS typ. @115Vac
 Short Circuit Protection Continuous(Auto Recovery)
 Over Voltage Protection TVS Component to Clamp
 Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$

DERATING CURVE:



GENERAL SPECIFICATIONS:

Isolation Input to Output 3000Vac
 Operating Temperature -20°C to +70°C (see derating curve)
 Storage Temperature Range -20°C to +85°C
 Humidity 93% RH max. Non condensing
 Cooling Natural Convection
 Switching Frequency 65KHz typ.
 MTBF MIL-HDBK-217F, GB, at 25°C/115VAC 200Khrs min.
 Altitude 5000m
 Dimensions 120x52x31mm (4,724x2,047x1,220 Inches)
 AC Inlet IEC320/C14
 Weight 300g typ.

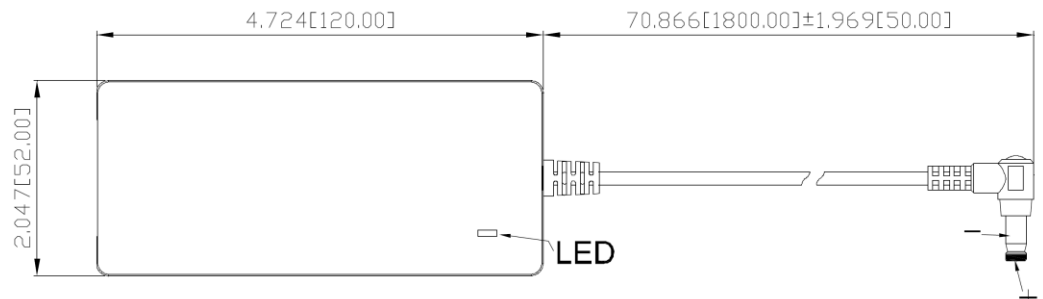
SAFETY & EMC:

Emission & Immunity EN55032 Class B, FCC Part15 Class B
 EN61000-6-3, EN61000-3-2, EN61000-3-3
 EN55024, EN61204-3, EN61000-6-1
 Safety Class I, IEC62368-1, EN62368-1, UL62368-1
 IEC/EN/UL60950-1

MECHANICAL SPECIFICATION

All dimensions in Inches (mm)

Tolerance: mm: x.xx=±0.5, Inches: x.xxx=±0.02



DC Plug type: V+ —●— V-
 DC Plug :Right Angle($\phi 5.5 / \phi 2.1$) L12mm
 18AWG/1800mm

IEC320/C14



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