



TRH150A SERIES

150W SWITCHING

ADAPTER WITH PFC



Features

- * Universal Input Range: 90-264VAC
- * Active PFC Meets EN61000-3-2
- * Conductive EMI Meets CISPR/FCC Class B
- * No Load power consumption < 150mW
- * Continuous Short Circuit Protection
- * Over Voltage Protection
- Meet CoC Tier 2 & DoE Level VI
- (TRH150A120~150: Output Cable Length $\leq$ 950mm)
- (TRH150A180~480: Output Cable Length $\leq$ 1220mm)



Ordering information

TRH150AXXX- XX	E	XX
Model No.	DC Plug Type	OVP
		DC Cable Length and Type
		E: WITH OVP
		471: 950mm with Ferrite Core
		12: 1220mm with Ferrite Core

Please see catalogue
page 71, only KPPX-4P
for 12V model and
15V model

*UL2464 Cable For all models

KPPX-4P DC Plug Type for 12V model and 15V model:

1424	KPPX-4P, 4Pin Power Plug Assembly Type with Lock Mechanism Pin1,2: + · Pin3,4, shell: "-"
1442	KPPX-4P, 4Pin Power Plug Assembly Type with Lock Mechanism ,Pin1,3: "+" ,Pin2,4, Shell: "-"
1446	KPPX-4P, 4Pin Power Plug Assembly Type with Lock Mechanism, Pin1,3: "-" ,Pin2,4: "+"
1538	KPPX-4P, 4Pin Power Plug Molded Type without Lock Mechanism Pin1,2: + · Pin3,4: -

MODEL	OUTPUT VOLTAGE	MIN LOAD	OUTPUT CURRENT	RIPPLE & NOISE (NOTE1)	VOLTAGE SETPOINT (NOTE2)	LINE REGULATION (NOTE3)	LOAD REGULATION (NOTE4)	% EFF (Typ) (NOTE5)
TRH150A120	12V	0A	12.50A	2%	±2.5%	±1%	±5%	91%
TRH150A150	15V	0A	10.00A	2%	±2.5%	±1%	±5%	92%
TRH150A180	18V	0A	8.34A	2%	±2.5%	±1%	±5%	92%
TRH150A190	19V	0A	7.90A	2%	±2.5%	±1%	±5%	92%
TRH150A240	24V	0A	6.25A	2%	±2.5%	±1%	±5%	93%
TRH150A280	28V	0A	5.36A	2%	±2.5%	±1%	±5%	94%
TRH150A360	36V	0A	4.17A	2%	±2.5%	±1%	±5%	93%
TRH150A480	48V	0A	3.13A	2%	±2.5%	±1%	±5%	94%

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current 120A max. @240Vac(NOTE6)
 Conducted EMI CISPR/FCC Class B
 Leakage Current 3.5mA max.

OUTPUT SPECIFICATIONS:

Holdup Time 16ms typ. @115Vac
 Short Circuit Protection Continuous
 Over Voltage Protection Yes

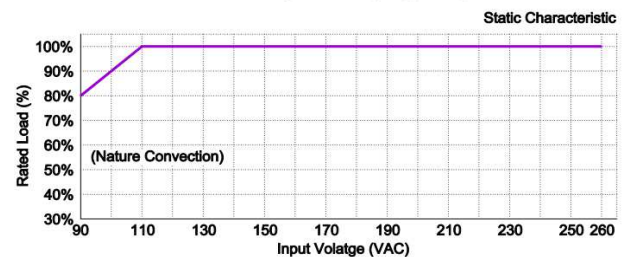
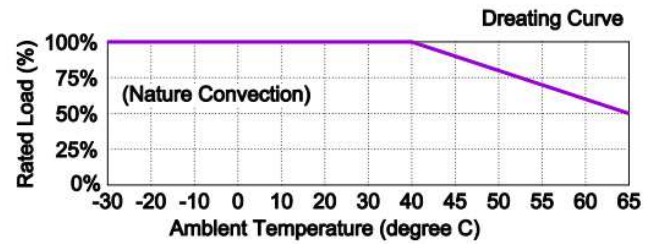
GENERAL SPECIFICATIONS:

Isolation Input to output = 4,242VDC
 Operating Temperature -30 ~ 65°C, 40~65°C with 2%/°C Derating
 Operating Humidity 93%RH max. no condensing
 Storage Temperature -40~85°C
 Cooling Natural Convection
 Switching Frequency 100KHz Typical
 Dimensions 7.087x2.913x1.614 inches (180.00x74.00x41.00 mm)
 AC Inlet IEC320/C14
 Weight 750g

SAFETY AND EMC:

Emission and Immunity EN55032 Class B, FCC Part 15 Class B
 EN61000-3-2, EN61000-3-3, EN55024, EN61204-3
 Safety IEC60950-1, EN60950-1, UL60950-1

TRH150A Series Derating Curve



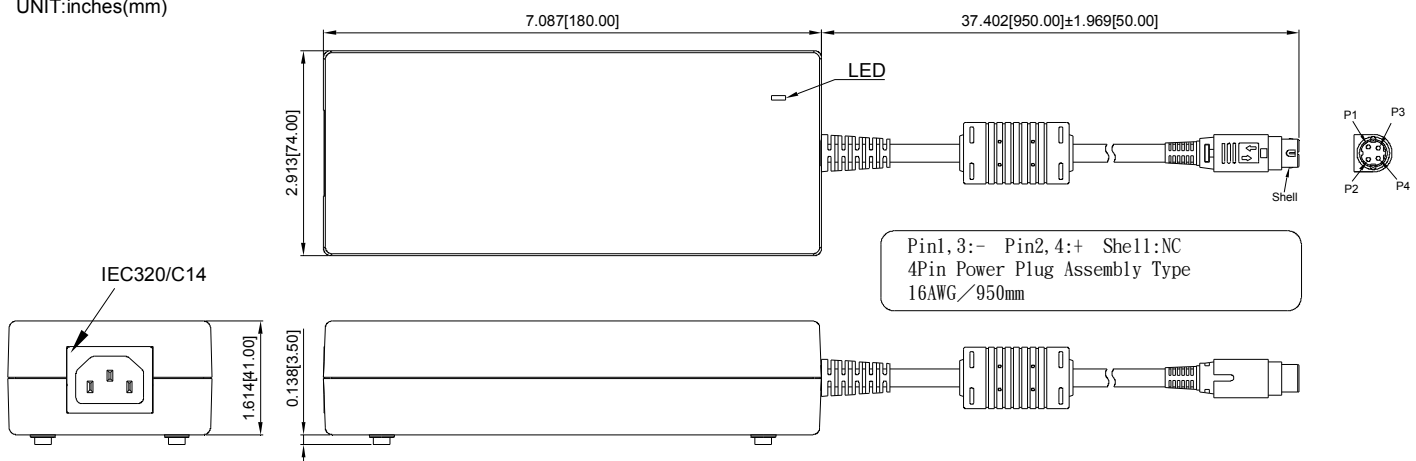
NOTE:

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, 230Vac Input voltage.
6. Inrush current at 120A Max./200us for AC turn on.

Mechanical Specification

Model TRH150A120~150:

All Dimensions are in inches(mm)
 Tolerance:Inches:X.XXX±0.02
 Millimeters:X.XX±0.5
 UNIT:inches(mm)



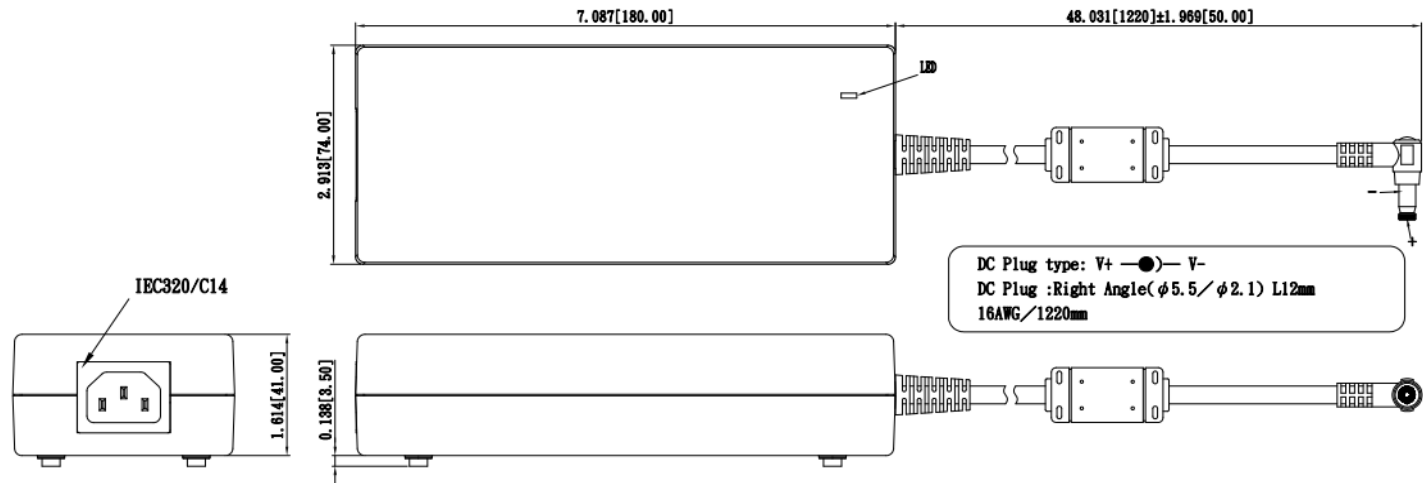
Typical at 25°C, nominal line and 75% load, unless otherwise Specified

Mechanical Specification

Model TRH150A180~480:

All Dimensions are in inches(mm)
Tolerance:Inches:X.XXX±0.02
Millimeters:X.XX±0.5

UNIT:inches(mm)



Typical at 25°C, nominal line and 75% load, unless otherwise Specified

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cincon:

[TRH150A190-01E12-LEVEL-VI](#) [TRH150A240-11E12-Level-VI](#) [TRH150A150-02E12-Level-VI](#) [TRH150A120-02E12-Level-VI](#) [TRH150A240-12E13-Level-VI](#) [TRH150A360-11E13-Level-VI](#) [TRH150A180-12E12-Level-VI](#) [TRH150A180-02E12-Level-VI](#) [TRH150A480-02E13-Level-VI](#) [TRH150A190-11E12-Level-VI](#) [TRH150A280-02E13-Level-VI](#) [TRH150A120-11E12-Level-VI](#) [TRH150A480-11E13-Level-VI](#) [TRH150A360-01E13-Level-VI](#) [TRH150A240-11E13-Level-VI](#) [TRH150A180-01E12-Level-VI](#) [TRH150A240-01E13-Level-VI](#) [TRH150A190-02E12-Level-VI](#) [TRH150A120-01E12-Level-VI](#) [TRH150A150-11E12-Level-VI](#) [TRH150A280-01E13-Level-VI](#) [TRH150A480-01E13-Level-VI](#) [TRH150A180-11E12-Level-VI](#) [TRH150A360-12E13-Level-VI](#) [TRH150A240-02E13-Level-VI](#) [TRH150A120-12E12-Level-VI](#) [TRH150A190-12E12-Level-VI](#) [TRH150A280-12E13-Level-VI](#) [TRH150A360-02E13-Level-VI](#) [TRH150A150-12E12-Level-VI](#) [TRH150A150-01E12-Level-VI](#) [TRH150A280-11E13-Level-VI](#) [TRH150A480-12E13-Level-VI](#) [TRH150A150-1442E471-Level-VI](#) [TRH150A150-1467E471-Level-VI](#) [TRH150A280-01E12-Level-VI](#) [TRH150A120-1538E471-Level-VI](#) [TRH150A120-1467E471-Level-VI](#) [TRH150A360-02E12-Level-VI](#) [TRH150A280-02E12-Level-VI](#) [TRH150A150-1446E471-Level-VI](#) [TRH150A240-01E12-Level-VI](#) [TRH150A240-02E12-Level-VI](#) [TRH150A480-01E12-Level-VI](#) [TRH150A480-02E12-Level-VI](#) [TRH150A150-1424E471-Level-VI](#) [TRH150A120-1442E471-Level-VI](#) [TRH150A360-01E12-Level-VI](#) [TRH150A120-1424E471-Level-VI](#) [TRH150A150-1538E471-Level-VI](#) [TRH150A120-1446E471-Level-VI](#)