

TR60M SERIES 60W MEDICAL SWITCHING **ADAPTER**











Features

- * Universal Input Range 90~264VAC
- * Meets EN60601-1 and EN55011 Class B
- * Continuous Short Circuit Protection
- * Over Voltage Protection
- * Meet CEC Level IV (Output Cable Length ≤ 1800mm) (TR60M Series meets CEC IV except TR60M05 is Non-CEC Compliant)

(TR60M12: Output Cable Length ≤ 1220mm 16AWG)

* Efficiency & Standby Power Meet Level V (Option) (Output Cable Length ≤ 1800mm)

(TR60M12 : Output Cable Length ≤ 720mm 16AWG) (TR60M15 : Output Cable Length ≤ 1220mm 16AWG)

(TR60M18,TR60M19 : Output Cable Length ≤ 1500mm 18AWG)

* Meets 2 MOPP



TR60MXX-Model No.

DC Plug Type

OVP F: With OVP

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

*18AWG/UL1185



	OLEDI II	OLEDI E	RIPPLE&	VOLTAGE	LINE	LOAD	0/ FFF (Tim)
MODEL	OUTPUT VOLTAGE	OUTPUT	NOISE	ACCURACY	REGULATION	REGULATION	% EFF. (Typ.) NOTE 5
	VOLTAGE	CURRENT	NOTE2	NOTE1	NOTE3	NOTE4	NOILS
TR60M05	5 V	6 A	50 mV	±4%	±1%	±6%	75%
TR60M12	12 V	5 A	120 mV	±2%	±1%	±5%	85%
TR60M15	15 V	4 A	150 mV	±2%	±1%	±3%	85%
TR60M18	18 V	3.33 A	180 mV	±2%	±1%	±2%	86%
TR60M19	19 V	3.15 A	190 mV	±2%	±1%	±2%	86%
TR60M24	24 V	2.5 A	240 mV	±2%	±1%	±2%	87%
TR60M36	36 V	1.66 A	360 mV	±2%	±1%	±2%	87%
TR60M48	48 V	1.25 A	480 mV	±2%	±1%	±2%	87%

Specifications

TR60M Series Derating Curve

INPUT SPECIFICATIONS:

Voltage	90~264Vac
Frequency	47 to 63Hz
Inrush Current	Cold Start @25℃ 80A max. @240Vac
Conducted EMI	CISPR/FCC Class B
Leakage Current	0.1mA max.

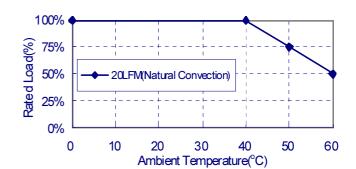
OUTPUT SPECIFICATIONS:

Hold-up Time	8ms typ. @115Vac
Short Circuit Protection	Continuous
Over Voltage Protection	Yes
Temperature Coefficient	±0.05%/°C

GENERAL SPECIFICATIONS:

Isolation	Input to output =5,656VDC
Operating Temperature 0	~ 60°C (see derating curve)
Storage Temperature	20 ~ 85℃
Humidity 93°	% RH max. Non condensing
Cooling	Natural Convection
Switching Frequency	100KHz Typical
MTBF MIL-HDBK-217F, GB, at 25°C/115 Altitude	
Dimensions 5.197x2.283x1.201 inche Weight	,

SAFETY AND EMC:



NOTE:

- 1. Voltage accuracy at 60% full load.
- Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
- 3. Line regulation is measured from 100Vac to 240Vac full load.
- Load regulation is measured from 60% to 100% full load and from 60% to 20% full load (60% +/- 40% full load).
- 5. Typical efficiency at 230VAC and full load at 25°C.
- 6. "Various TR Series adapters are PSE certified. PSE certification alone is not sufficient for importation into Japan. A valid PSE mark must contain the name of the importer as shown in the example below. If PSE mark is required, the name of the registered importer must be supplied to Cincon on order placement. Product labels will not contain PSE mark if importer name is not supplied. Consult factory or local representative for details".

Mechanical Specification

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

