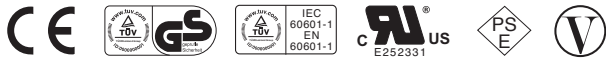


TRG21

S E R I E S

20W SWITCHING ADAPTER



Features

- Universal Input Range 90~264VAC
 - Efficiency to 85%
 - Continuous Short Circuit Protection
 - Over Voltage Protection
 - No load input power < 0.3W
 - Leakage Current < 0.1mA
 - UL60601-1/IEC60601-1/EN60601-1
 - Medical safety and IEC60950-1/EN60950-1 ITE approved
 - AC Inlet IEC320/C8
 - Meet CEC & ErP Level V
- (Output Cable Length \leq 1800mm 18AWG)
(TRG21A050: Length \leq 1220mm 18AWG)**

Ordering information

TRG21-1AXXX -	XX	E	XX
Model No.	DC Plug Type * Please see Page 243 for more detailed descriptions	OVP E: 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

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	MIN. LOAD	MAX. LOAD	Output Rated Power	RIPPLE & NOISE	VOLTAGE ACCURACY	LOAD REGULATION	%EFF. (Typ.)
TRG21A050	90-264 VAC	5.0 V	0	3.0 A	15.0 W	50 mV	±2%	±5%	75%
TRG21A090	90-264 VAC	9.0 V	0	2.3 A	20.7 W	50 mV	±2%	±4%	80%
TRG21A120	90-264 VAC	12 V	0	1.8 A	21.6 W	90 mV	±2%	±3%	81%
TRG21A150	90-264 VAC	15 V	0	1.4 A	21.0 W	100 mV	±2%	±3%	83%
TRG21A180	90-264 VAC	18 V	0	1.2 A	21.6 W	100 mV	±2%	±2%	84%
TRG21A240	90-264 VAC	24 V	0	0.9 A	21.6 W	100 mV	±2%	±2%	85%

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63
 Hz Input Current 0.3 to 0.5
 Inrush Current Cold Start@25°C..... 40A max. @230Vac
 Leakage Current 0.1mA max.

OUTPUT SPECIFICATIONS:

Voltage Accuracy ±2.0% max.
 Line Regulation (note 3) ±1.0% max.
 Load Regulation (note 4) see table
 Holdup Time 8ms typ. @115Vac
 Short Circuit Protection Continuous
 Over Voltage Protection(TVS) 115%-140% of nominal output voltage

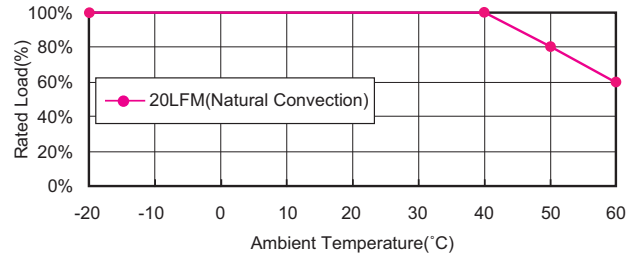
GENERAL SPECIFICATIONS:

Isolation Input to output = 5.656VDC
 Efficiency see table
 Switching Frequency 100KHz typ.
 Operating Temperature -20~60°C(see derating curve)
 Storage Temperature -25~85°C
 Cooling Natural Convection
 Humidity 93% RH max. Non condensing
 MTBF MIL-STD-217F, GB, at 25°C/115VAC 400K hrs min.
 Dimensions 3.000x1.780x0.870 inches (76.20x45.20x22.10 mm)
 Weight 140g (0.31Pounds)

SAFETY AND EMC:

CE Directive 2004/108/EC, 93/42/EEC
 Emissions EN60601-1/EN61204-3/EN55022/CISPR Class B, EN55024
 Safety Approvals UL60601-1,IEC60601-1,EN60601-1
 IEC60950-1,EN60950-1

TRG21 Series Derating Curve



NOTE:

1. Voltage accuracy is set of 60% rated load.
2. Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).

TRG 21

Mechanical Specification

All Dimensions In Inches(mm)
 Tolerance Inches: x.xxx= ±0.02
 Millimeters: x.xx= ±0.5

