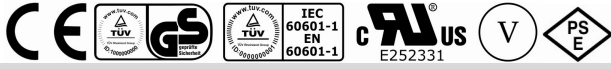




TRG21 SERIES

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 and Erp Level V
(Output Cable Length $\leq$ 1800mm 18AWG)
(TRG21A050: Length $\leq$ 1200mm 18AWG)



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

Specifications

INPUT SPECIFICATIONS:

Voltage	90~264Vac
Frequency	47 to 63Hz
Input Current	0.3 to 0.5A
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:

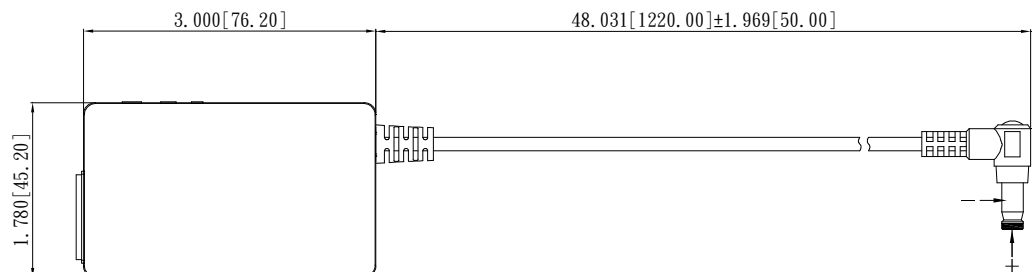
Isolation	Input to output = 5,656VDC
Efficiency	see table
Switching Frequency	100KHz typ.
Operating Temperature	-20 ~ 60°C (see derating curve)
Storage Temperature	-25~85°C
Cooling	Natural Convection
Humidity	93% RH max. Non condensing
MTBF	MIL-STD-217F, GB, at 25°C/115VAC 400K hrs min.
Dimensions	3.000x1.780x0.870Inches (76.20x45.20x22.10mm)
Weight	140g(0.31Pounds)

Mechanical Specification

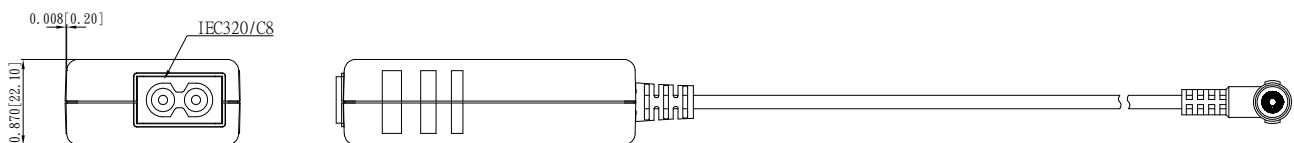
All Dimensions are in inches(mm)

Tolerance: Inches:X.XXX±0.02

Millimeters:X.XX±0.5

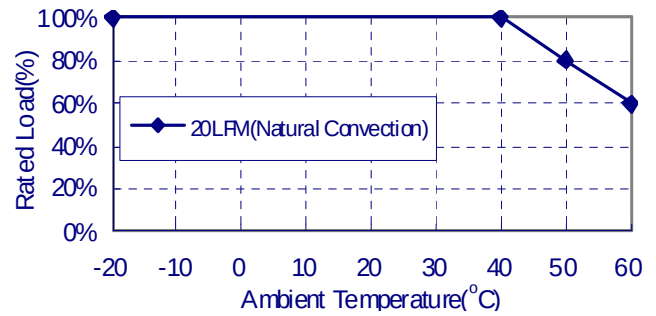


DC Plug type: V+ —●— V-
 DC Plug :Right Angle($\phi 5.5 / \phi 2.1$) L12mm
 18AWG / 1220mm



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

TRG21 Series De-rating Curve



SAFETY AND EMISSION:

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

NOTE:

1. Voltage accuracy is set of 60% rated load.
2. Add a 0.1uF ceramic capacitor and a 10uF 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).

Mouser Electronics

Authorized Distributor

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Cincon:

<u>TRG21A050-01E02-Level-V</u>	<u>TRG21A050-02E02-Level-V</u>	<u>TRG21A090-01E03-Level-V</u>	<u>TRG21A090-02E03-Level-V</u>
<u>TRG21A120-01E03-Level-V</u>	<u>TRG21A120-02E03-Level-V</u>	<u>TRG21A150-01E03-Level-V</u>	<u>TRG21A150-02E03-Level-V</u>
<u>TRG21A180-01E03-Level-V</u>	<u>TRG21A180-02E03-Level-V</u>	<u>TRG21A240-01E03-Level-V</u>	<u>TRG21A240-02E03-Level-V</u>
<u>TRG21A090-35E03-Level-V</u>	<u>TRG21A090-36E03-Level-V</u>	<u>TRG21A090-39E03-Level-V</u>	<u>TRG21A090-40E03-Level-V</u>
<u>TRG21A090-48E03-Level-V</u>	<u>TRG21A090-49E03-Level-V</u>	<u>TRG21A120-35E03-Level-V</u>	<u>TRG21A120-36E03-Level-V</u>
<u>TRG21A120-39E03-Level-V</u>	<u>TRG21A120-40E03-Level-V</u>	<u>TRG21A120-48E03-Level-V</u>	<u>TRG21A120-49E03-Level-V</u>
<u>TRG21A240-35E03-Level-V</u>	<u>TRG21A240-36E03-Level-V</u>	<u>TRG21A240-39E03-Level-V</u>	<u>TRG21A240-40E03-Level-V</u>
<u>TRG21A240-48E03-Level-V</u>	<u>TRG21A240-49E03-Level-V</u>	<u>TRG21A050-11E02-Level-V</u>	<u>TRG21A050-12E02-Level-V</u>
<u>TRG21A090-11E03-Level-V</u>	<u>TRG21A090-12E03-Level-V</u>	<u>TRG21A120-11E03-Level-V</u>	<u>TRG21A120-12E03-Level-V</u>
<u>TRG21A150-11E03-Level-V</u>	<u>TRG21A150-12E03-Level-V</u>	<u>TRG21A180-11E03-Level-V</u>	<u>TRG21A180-12E03-Level-V</u>
<u>TRG21A240-11E03-Level-V</u>	<u>TRG21A240-12E03-Level-V</u>		