

# TR20B

S E R I E S

## 20W SWITCHING ADAPTER



### Features

- Universal Input Range 90-264VAC
- Meets EN55022 Class B and CISPR/FCC Class B, Conducted
- Continuous Short Circuit Protection
- Over Voltage Protection
- Except TR20B033 and TR20B050, TR20B series meets CEC Level III (Output Cable Length ≤ 1800mm)
- AC Inlet IEC320-C6/C8/C14

### Ordering information

TR20BXXX	X	- XX	E XX
Model No.	AC Inlet Type	DC Plug Type	DC Cable Length and Type
	None : IEC320/C14 A : IEC320/C6 B : IEC320/C8	* Please see Page235 for more detailed descriptions	01 : 720mm 02 : 1200mm 03 : 1800mm 11 : 720mm with Ferrite Core 12 : 1200mm with Ferrite Core 13 : 1800mm with Ferrite Core * 18AWG / SPT1

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	SWITCHING FREQUENCY	%EFF.
TR20B033	3.3V	4500mA	0 A	50mVp-p	± 3%	± 1%	± 7%	60KHz Typ.	64% min.
TR20B050	5V	4000mA	0 A	50mVp-p	± 2%	± 1%	± 6%	60KHz Typ.	70% min.
TR20B090	9V	2300mA	0 A	90mVp-p	± 2%	± 1%	± 3%	60KHz Typ.	75% min.
TR20B120	12V	1700mA	0 A	100mVp-p	± 2%	± 1%	± 2%	60KHz Typ.	77% min.
TR20B150	15V	1400mA	0 A	100mVp-p	± 2%	± 1%	± 2%	60KHz Typ.	77% min.
TR20B180	18V	1200mA	0 A	150mVp-p	± 2%	± 1%	± 2%	60KHz Typ.	78% min.
TR20B240	24V	850mA	0 A	150mVp-p	± 2%	± 1%	± 2%	60KHz Typ.	78% min.

### Specifications

#### INPUT SPECIFICATIONS:

Voltage .....90 ~ 264Vac  
 Frequency .....47 to 63Hz  
 Input Current .....0.6A max.  
 Inrush Current.....50A max. @ 240Vac  
 Input Power (No Load).....0.75W max. @ 240Vac  
 Isolation .....Input to output =4,242VDC  
 Leakage Current.....1.5mA max

#### OUTPUT SPECIFICATIONS:

Holdup Time .....10mS typ. @115Vac  
 Short Circuit Protection .....Continuous (Auto Recovery)  
 Over Voltage Protection .....Yes

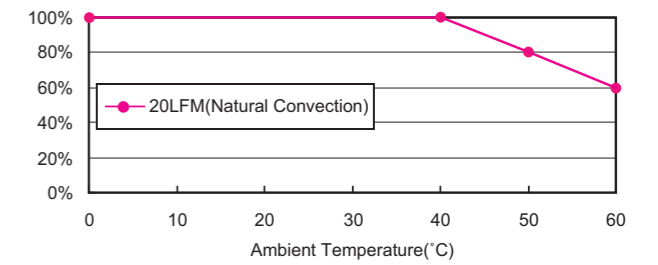
#### ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature .....0 ~ 40°C  
 Storage Temperature .....-20 ~ 85°C

#### MECHANICAL CHARACTERISTICS:

Dimensions .....110.00 x 50.00 x 30.00mm(4.331 x 1.969 x 1.181 Inches)  
 Weight .....210g (0.46 Pounds)

### TR20B Series Derating Curve

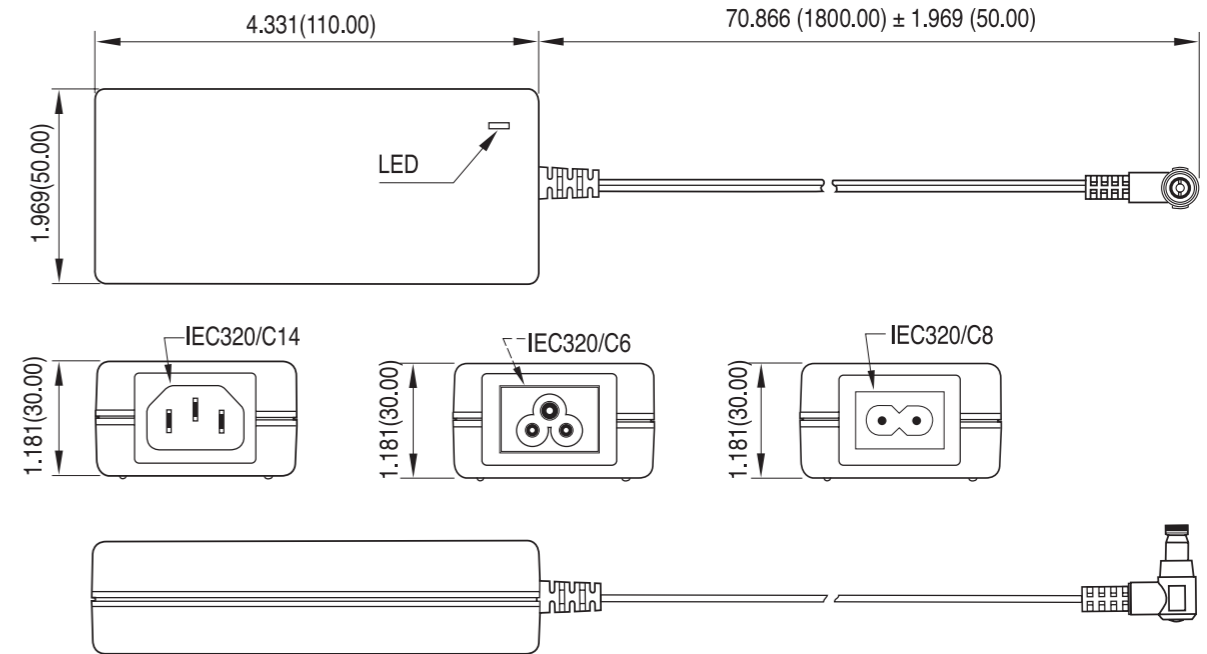


#### NOTE:

1. Voltage accuracy is set at 60% full 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 100Vac to 240Vac with full load.
4. Load regulation is measured from 60% to 100% full load and from 60% to 20% full load (60% +/- 40% full load)
5. TR20BxxxX=IEC320/C14, TR20BxxxA=IEC320/C6, TR20BxxxB=IEC320/C8

### Mechanical Specification

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



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

TR20BXXX=IEC320/C14, TR20BXXXA=IEC320/C6, TR20BXXXB=IEC320/C8