

TR20B

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 \leq 1800mm)
- AC Inlet IEC320-C6/C8/C14

Ordering information

Model No.	AC Inlet Type	DC Plug Type	DC Cable length and type
None	IEC320/C14	None	01 - 720mm
A	IEC320/C6	None	02 - 1200mm
B	IEC320/C8	None	03 - 1800mm
			11 - 720mm with Ferrite Core
			12 - 1200mm with Ferrite Core
			13 - 1800mm with Ferrite Core
			* 18AWG / SP1

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	$\pm 3\%$	$\pm 1\%$	$\pm 7\%$	60KHz Typ.	64% min.
TR20B050	5V	4000mA	0 A	50mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 6\%$	60KHz Typ.	70% min.
TR20B090	9V	2300mA	0 A	90mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	60KHz Typ.	75% min.
TR20B120	12V	1700mA	0 A	100mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	60KHz Typ.	77% min.
TR20B150	15V	1400mA	0 A	100mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	60KHz Typ.	77% min.
TR20B180	18V	1200mA	0 A	150mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	60KHz Typ.	78% min.
TR20B240	24V	850mA	0 A	150mVp-p	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	60KHz Typ.	78% min.

Specifications

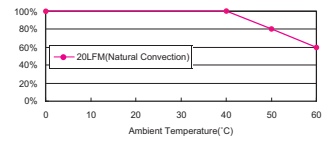
INPUT SPECIFICATIONS:
 Voltage 90 - 264Vac
 Frequency 47 to 63Hz
 Input Current 0.6A max.
 Input Power (No Load) 50A max. @ 240Vac
 Input Power 0.75W max. @ 240Vac
 Isolation Input to output = 4.24kVDC
 Leakage Current 1.5mA max

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

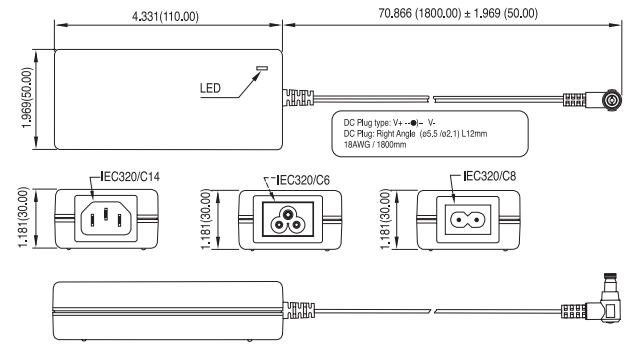


NOTE:

1. Voltage accuracy is set at 60% full load.
2. Add a 0.1µF ceramic capacitor and a 10µF EL 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% to 40% full load).
5. TR20Bxxx=IEC320/C14, TR20Bxxx=IEC320/C6, TR20Bxxx=IEC320/C8

Mechanical Specification

All Dimensions in Inches(mm)
 Tolerance Inches: x.xxx ±0.02
 Millimeters: x.xxx ±0.5



Typical at 25°C, nominal line and 75% load, unless otherwise Specified.
 TR20Bxxx=IEC320/C14, TR20Bxxx=IEC320/C6, TR20Bxxx=IEC320/C8