

# TR20B

## 20W SWITCHING ADAPTER



### Features

- Universal Input: 90 ~ 264Vac
- Continuous Short Circuit Protection
- Over Voltage Protection
- Conductive EMI Meets CISPR/FCC Class B
- High Efficiency, 75% Typical
- Green Power (Input power < 0.75W at no load)  
Meet "European Commission of Energy"  
2003 year Phase 2

### Specifications

#### INPUT CHARACTERISTICS:

Voltage ..... 90 ~ 264Vac  
 Frequency ..... 47 to 63Hz  
 Input Current ..... 0.6A max.  
 Inrush Current ..... 50A max. @ 264Vac  
 Input Power (No Load) ..... 0.75W max. @ 240Vac

#### ENVIRONMENTAL CHARACTERISTICS:

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

#### OUTPUT CHARACTERISTICS:

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

#### MECHANICAL CHARACTERISTICS:

Dimensions ..... 4.33x 1.96 x 1.18 Inches  
 Weight ..... 0.44 Pounds

MODEL	OUTPUT VOLTAGE	MAX. LOAD	IN. LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION
TR20B033	3.3 V	4500mA	0 A	50mVp-p	± 3%	± 1%	± 7%
TR20B050	5 V	4000mA	0 A	50mVp-p	± 2%	± 1%	± 6%
TR20B090	9 V	2300mA	0 A	90mVp-p	± 2%	± 1%	± 3%
TR20B120	12 V	1700mA	0 A	100mVp-p	± 2%	± 1%	± 2%
TR20B150	15 V	1400mA	0 A	100mVp-p	± 2%	± 1%	± 2%
TR20B180	18 V	1200mA	0 A	150mVp-p	± 2%	± 1%	± 2%
TR20B240	24 V	850mA	0 A	150mVp-p	± 2%	± 1%	± 2%

#### 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. TR20Bxxx-IEC320/C14, TR20BxxxA-IEC320/C6, TR20BxxxB-IEC320/C8

### Mechanical Specification

Unit: mm (in)

