



# TR10R SERIES

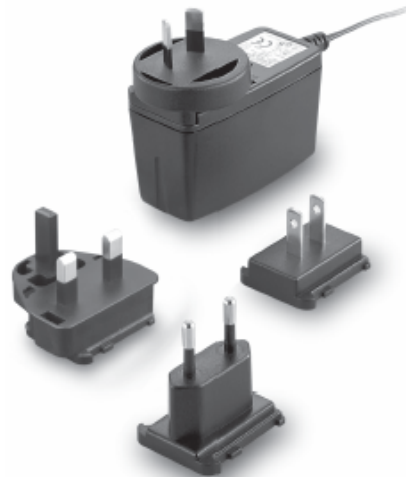
## 10W SWITCHING ADAPTER



\* Not CE certified for the EU"

### Features

- \* Universal Input: 90-264Vac
- \* Interchangeable AC Plugs
- \* EMI Meets EN55022 Class "B" and CISPR/FCC Class B, Conducted
- \* Continuous Short Circuit Protection



### Ordering information

TR10RXXX - XX X XX  
Model No. DC Plug Type DC Cable Length and Type

A: Without OVP  
\* Please see Page 213 for Option  
more detailed descriptions  
01: 720mm  
02: 1200mm  
03: 1800mm  
11: 7200mm with Ferrite Core  
12: 1200mm with Ferrite Core  
13: 1800mm with Ferrite Core

| MODEL    | OUTPUT VOLTAGE | MAX. LOAD | MIN. LOAD | RIPPLE & NOISE | VOLTAGE ACCURACY | LINE REGULATION | LOAD REGULATION | (%) EFF. (Typ) |
|----------|----------------|-----------|-----------|----------------|------------------|-----------------|-----------------|----------------|
| TR10R033 | 3.3V           | 1600mA    | 0A        | 50mV           | ±3%              | ±1%             | ±4%             | 60%            |
| TR10R050 | 5V             | 1600mA    | 0A        | 50mV           | ±2%              | ±1%             | ±4%             | 65%            |
| TR10R060 | 6V             | 1500mA    | 0A        | 1%             | ±2%              | ±1%             | ±3%             | 68%            |
| TR10R075 | 7.5V           | 1200mA    | 0A        | 1%             | ±2%              | ±1%             | ±3%             | 68%            |
| TR10R090 | 9V             | 1100mA    | 0A        | 1%             | ±2%              | ±1%             | ±2%             | 73%            |
| TR10R120 | 12V            | 850mA     | 0A        | 1%             | ±2%              | ±1%             | ±2%             | 73%            |
| TR10R136 | 13.6V          | 750mA     | 0A        | 1%             | ±2%              | ±1%             | ±2%             | 76%            |
| TR10R150 | 15V            | 700mA     | 0A        | 1%             | ±2%              | ±1%             | ±2%             | 75%            |
| TR10R180 | 18V            | 550mA     | 0A        | 1%             | ±2%              | ±1%             | ±2%             | 76%            |
| TR10R240 | 24V            | 400mA     | 0A        | 1%             | ±2%              | ±1%             | ±2%             | 76%            |

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Input Current ..... 0.4A max.  
 Inrush Current ..... 40A max. @240Vac  
 Conducted EMI ..... CISPR/FCC Class B  
 Leakage Current ..... 0.25mA max.

### OUTPUT SPECIFICATIONS:

Holdup Time ..... 10ms typ. @115Vac  
 Short Circuit Protection ..... Continuous(Auto Recovery)  
 Over Current Protection ..... Constant Current type  
 Temperature Coefficient .....  $\pm 0.05\%/^{\circ}\text{C}$

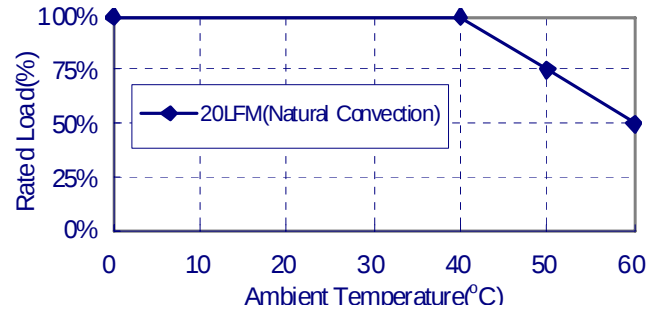
### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC  
 Operating Temperature ..... 0 ~ 60°C (see derating curve)  
 Storage Temperature ..... -20~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 40KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, 25°C/115VAC ..... 200K hrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 2.835x1.811x1.378Inches (72.00x46.00x35.00mm)  
 Weight ..... 155g(0.34 Pounds)

### SAFETY AND EMC:

Emission and Immunity ..... EN55022 Class B, FCC Part 15 Class B  
 EN61000-6-3, EN61000-3-2, EN61000-3-3  
 EN55024, EN61204-3, EN61000-6-1  
 Safety ..... IEC60950-1, EN60950-1, UL60950-1

## TR10R Series Derating Curve

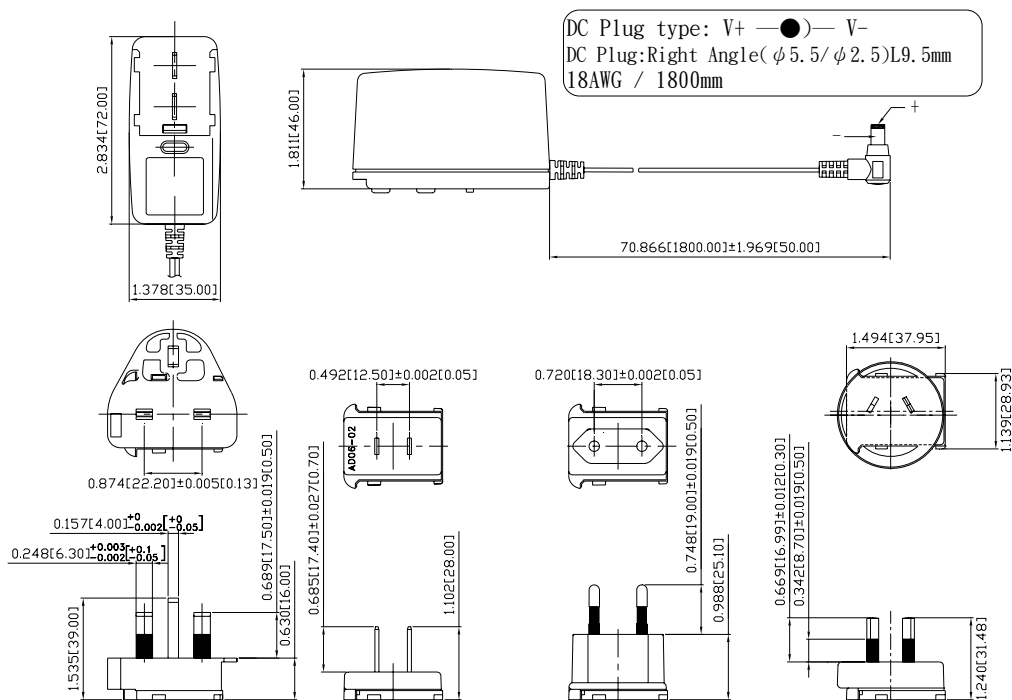


### NOTE:

1. Voltage setpoint at 60% full 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 100Vac to 240Vac with full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% +/- 40% load)

## Mechanical Specification

All Dimensions are in inches(mm)  
 Tolerance: Inches: X.XXX $\pm$ 0.02  
 Millimeters: X.XX $\pm$ 0.5



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