



## 18 Watts

Single Outputs

- 4:1 ultra wide input range 9-36 Vdc 20-72 Vdc
- 100kHz switching frequency
- Continuous short circuit protection
- Six-sided shielding

# **Specifications**

### **INPUT**

Voltage Range

9-36Vdc 20-72Vdc

Filtering

All Models

Reverse Polarity Protected

To Nominal Input Current External Fuse Required

### OUTPUT

Voltage Tolerance

± 1%

Ripple and Noise

50mV pk-pk

**Short Circuit Protection** 

Continuous Power Cycle

0.02% / °C Temperature Coefficient

### **GENERAL**

Regulation:

Line 0.5% Load 1.0% 77% (typ) Efficiency I/O Isolation 500 Vdc Switching Frequency 100khz (typ)

### **ENVIRONMENTAL**

Operating Temperature Storage Temperature Cooling

-25°C to +71°C No Derating

-25°C to +105°C Free-air Convection

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

he 18-Watt TUC/TUM Series operates over an ultra wide input range of 9-36 Vdc or 20-72 Vdc. Efficiencies of 77% are typical over varying load conditions of 25% to 100%. Additional features include input reverse polarity protection, short circuit protection with auto restart, overvoltage protection, and an operating temperature range of -25°C to +71°C with no derating.

### **Applications**

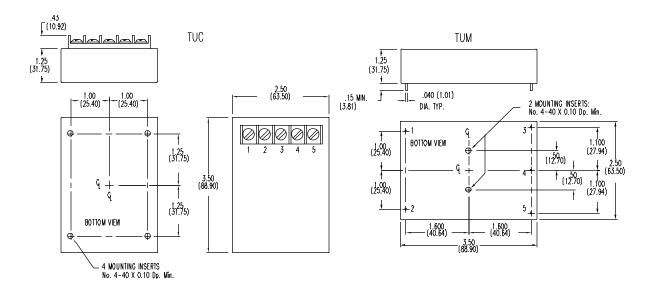
These units are ideally suited for telecommunications and applications having a widely varying input voltage such as automotive test equipment, process control, minicomputers, and geosurvey equipment.



# TUM/TUC Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number	Model Number
9-36 Vdc	5 Vdc	3500mA	TUM11-350-18	TUC11-350-18
20-72 Vdc	5 Vdc	3500mA	TUM11-350-48	TUC11-350-48
9-36 Vdc	12 Vdc	1500mA	TUM12-150-18	TUC12-150-18
20-72 Vdc	12 Vdc	1500mA	TUM12-150-48	TUC12-150-48
9-36 Vdc	15 Vdc	1200mA	TUM13-120-18	TUC13-120-18
20-72 Vdc	15 Vdc	1200mA	TUM13-120-48	TUC13-120-48

## **Dimensions and Connections**



### **PIN CONNECTIONS**

### Pin / Terminal

- 1. +Input
- 2. -Input
- 3. + Output
- 4. No Connect
- 5. Common

#### NOTES:

- 1. Ripple measured with a 3.3 mf tantalum capacitor across each output.
- 2. Load regulation from full load to minimum load with all other outputs at rated load.
- 3. Minimum current required on 5V out only.
- 4. Maximum total power from all outputs is 18 Watts and no output is to exceed its maximum rated current.

11/01/2001