

3 Watt / 24Pins DIL / 1500Vdc Isolation / 2:1 Input Range

FEATURES:

1. Low Cost, High Performance
2. Miniature DIL Package And 2:1 Input Range
3. 1500Vdc Input/Output Isolation
4. No External Components Required
5. Low Profile and Compact Size

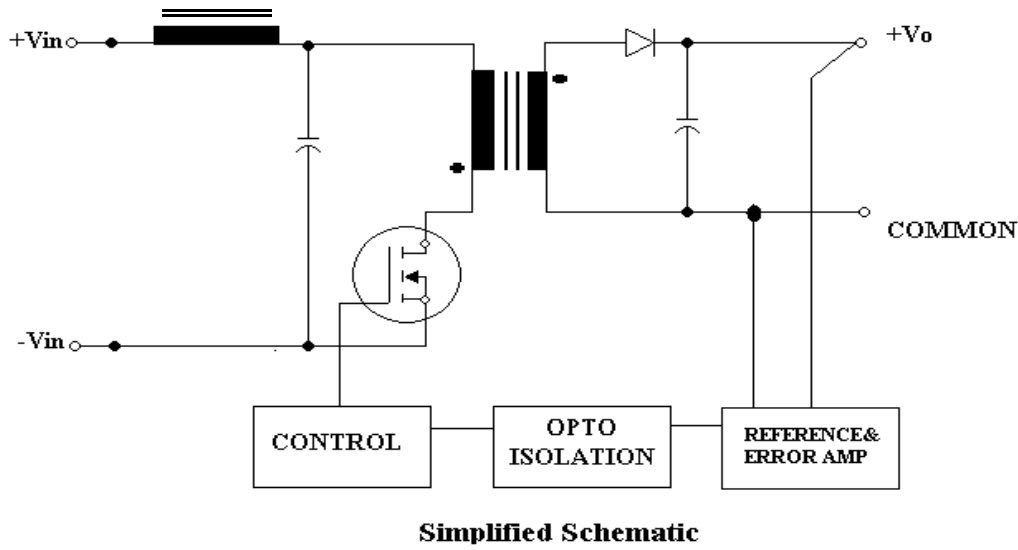
APPLICATIONS:

1. Telecommunications
2. Battery Powered Systems
3. Transportation Equipment
4. Portable Instruments
5. Distributed Power Systems



Specification At 25°C

| | |
|--|---|
| Input Specifications: | General Specifications: |
| Input Voltage Range: See Table | Isolation Voltage:1500Vdc |
| Input Filter: LC Type | Efficiency: See Table |
| Output Specifications: | Switching Frequency: 25KHz typical |
| Output Voltage & Current: See Table | Isolation Resistance: 1000M ohm |
| Voltage Accuracy: $\pm 3\%$ max | Environmental Specifications: |
| Output Voltage Balance(Dual Outputs): $\pm 1\%$ | Operating Temperature: -25 to +71°C |
| Line Regulation(at full load): $\pm 1\%$ max | Storage Temperature: -40 to +105°C |
| Load Regulation (at full load to 1/4 load): | Cooling: Free air convection |
| Single Output: $\pm 1\%$ max ,Dual Output: $\pm 2.5\%$ max | Humidity Non-Condensing: 20 to 95% RH |
| Temperature Coefficient: $\pm 0.05\%$ / °C max | Physical Specifications: |
| Ripple & Noise(20MHz BW): 1% p-p max | Case Material:Nickel-Coated Copper With Non-Conductive Base |
| Short Circuit Protection: Power Fold Back | Weight: 15 Grams Typical |
| Over Load Protection:Build-in | |



TAIMAG

Ordering Information:

| T | 15 | B | D | 030 | — | 05 | S | 05 |
|---------|-------------------|------------------|---------------|-------------|---|---------------|--------------|----------------|
| Company | Isolation Voltage | Input Vol. Model | Package | Output Watt | | Input Voltage | Output Model | Output Voltage |
| TAIMAG | 05=500,10=1000 | A=±5%~10% | S=Single | 030=3Watt | | 05=5V±5% | S=Single | 05=5V |
| | 15=1500,20=2000 | B=2:1,C=4:1 | D=Dual,SM=SMD | 025=2.5Watt | | Or 9-18V | D=Dual | |

Electrical Specification:

| Model | Input | | | Output | | Efficiency Typical % (a) | Package External Fuse (b) |
|----------------|---------------|-------------|-----------|---------------|--------------|--------------------------|---------------------------|
| | Voltage (Vdc) | Current(mA) | | Voltage (Vdc) | Current (mA) | | |
| | | No-Load | Full-Load | | | | |
| T15AD025-05S05 | 4.5-6.0 | 90 | 835 | 5 | 500 | 60 | H/I ,2 |
| T15AD030-05S12 | 4.5-6.0 | 100 | 920 | 12 | 250 | 65 | H/I ,2 |
| T15AD030-05S15 | 4.5-6.0 | 100 | 920 | 15 | 200 | 66 | H/I ,2 |
| T15AD025-05D05 | 4.5-6.0 | 90 | 780 | ±5 | ±250 | 64 | H/I ,2 |
| T15AD030-05D12 | 4.5-6.0 | 100 | 920 | ±12 | ±125 | 65 | H/I ,2 |
| T15AD030-05D15 | 4.5-6.0 | 100 | 920 | ±15 | ±100 | 61 | H/I ,2 |
| T15BD025-12S05 | 9-18 | 40 | 320 | 5 | 500 | 65 | H/I ,1 |
| T15BD030-12S12 | 9-18 | 40 | 355 | 12 | 250 | 70 | H/I ,1 |
| T15BD030-12S15 | 9-18 | 40 | 355 | 15 | 200 | 70 | H/I ,1 |
| T15BD025-12D05 | 9-18 | 40 | 315 | ±5 | ±250 | 66 | H/I ,1 |
| T15BD030-12D12 | 9-18 | 40 | 355 | ±12 | ±125 | 70 | H/I ,1 |
| T15BD030-12D15 | 9-18 | 40 | 355 | ±15 | ±100 | 70 | H/I ,1 |
| T15BD025-24S05 | 18-36 | 20 | 160 | 5 | 500 | 65 | H/I ,0.5 |
| T15BD030-24S12 | 18-36 | 20 | 175 | 12 | 250 | 71 | H/I ,0.5 |
| T15BD030-24S15 | 18-36 | 20 | 175 | 15 | 200 | 71 | H/I ,0.5 |
| T15BD025-24D05 | 18-36 | 20 | 155 | ±5 | ±250 | 67 | H/I ,0.5 |
| T15BD030-24D12 | 18-36 | 20 | 180 | ±12 | ±125 | 70 | H/I ,0.5 |
| T15BD030-24D15 | 18-36 | 20 | 170 | ±15 | ±100 | 73 | H/I ,0.5 |
| T15BD025-48S05 | 36-72 | 20 | 75 | 5 | 500 | 69 | H/I ,0.2 |
| T15BD030-48S12 | 36-72 | 20 | 85 | 12 | 250 | 73 | H/I ,0.2 |
| T15BD030-48S15 | 36-72 | 20 | 85 | 15 | 200 | 73 | H/I ,0.2 |
| T15BD025-48D05 | 36-72 | 20 | 75 | ±5 | ±250 | 69 | H/I ,0.2 |
| T15BD030-48D12 | 36-72 | 20 | 85 | ±12 | ±125 | 73 | H/I ,0.2 |
| T15BD030-48D15 | 36-72 | 20 | 85 | ±15 | ±100 | 73 | H/I ,0.2 |

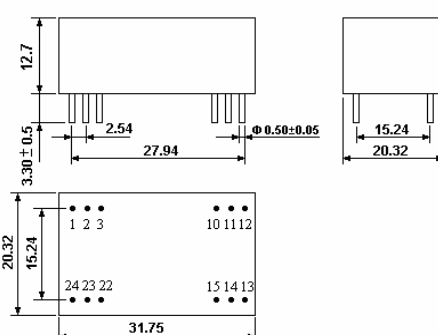
(a) Efficiency is specified at nominal input voltage and full load.

(b) Certain applications may require the installation of external fuse in front of the input.

Dimensions: Unit=mm±0.25

| Pin Connections | | |
|-----------------|-------------|---------|
| Pin Number | Package H/I | |
| | Single | Dual |
| 1&24 | +Input | +Input |
| 2&23 | NC | -Output |
| 3&22 | NC | COM |
| 10&15 | -Output | COM |
| 11&14 | +Output | +Output |
| 12&13 | -Input | -Input |

Package H: Nickel-Coated Copper Base



Package I: Non-Conductive Plastic Case

