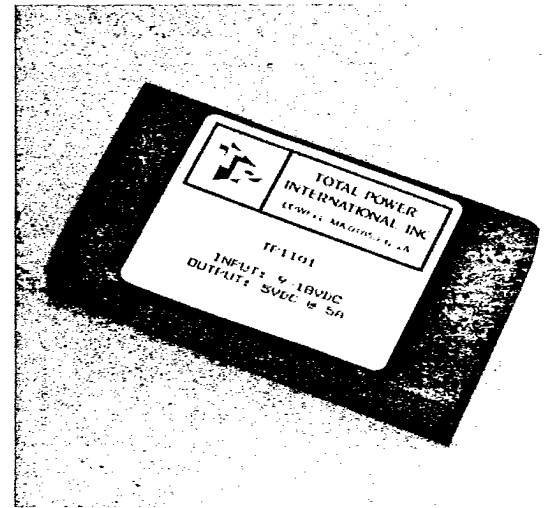


## 25 to 30 WATT SINGLE, DUAL and TRIPLE OUTPUT DC-DC CONVERTERS

### TP1100 SERIES

#### Features:

- 2:1 Input Range
- 30W Isolated Outputs
- Up to 84% Efficiency
- Remote On/Off Control
- 100kHz Switching Frequency
- Six-Sided Shield



#### Specifications:

##### Input

|                            |                               |
|----------------------------|-------------------------------|
| Input Voltage Range        | : See Order Information Table |
| Input Filter               | : Pi Network                  |
| Reverse Voltage Protection | : Internal Shunt Diode        |

##### Output

|                        |                                       |
|------------------------|---------------------------------------|
| Voltage/Current Rating | : See Order Information Table         |
| Voltage Tolerance      | : ±1% (max) Single Output             |
|                        | : ±1% (max) + Dual Output             |
|                        | : ±3% (max) - Dual Output             |
|                        | : ±2% (max) 5V Triple Output          |
|                        | : ±3% (max) 12/15V Triple Output      |
| Order Adjustment       | : ±10% External Trim                  |
| Line Regulation        | : ±0.2% (max)                         |
| Load Regulation        | : ±1% (max)                           |
| Ripple and Noise       | : 10mV RMS (max), 75mV (max) p-p      |
| Dielectric Withstand   | : 500VDC (min)                        |
| Isolation Resistance   | : 10 <sup>9</sup> ohms (min)          |
| Efficiency             | : See Order Information Table         |
| Switching Frequency    | : 100kHz                              |
| Output Protection      | : Continuous Short Circuit Protection |
|                        | : OVP at 6.8V on 5V                   |
|                        | : OVP at 15V on 12V                   |
|                        | : OVP at 18V on 15V                   |

##### Environmental

|                         |                   |
|-------------------------|-------------------|
| Operating Temperature   | : -25°C to 71°C   |
| Storage Temperature     | : -55°C to 105°C  |
| Temperature Coefficient | : ±0.02%/°C (max) |

##### Other Features

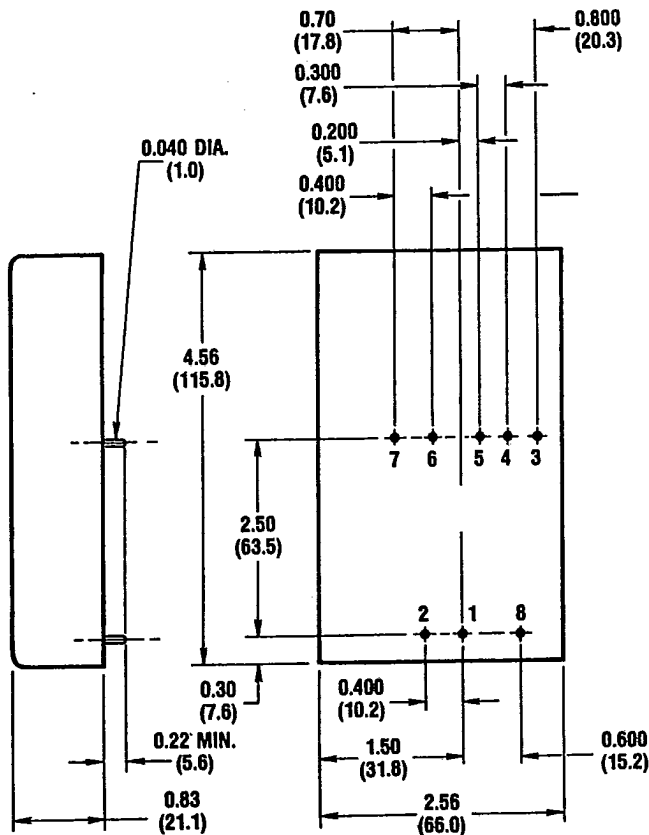
: Remote On/Off Control

##### Mechanical

|               |  |
|---------------|--|
| Case Material | : Copper Case with Non-Conductive Base |
|---------------|--|

**ORDER INFORMATION TABLE**

| MODEL NUMBER | INPUT VOLTAGE RANGE | OUTPUT VOLTAGE | OUTPUT CURRENT   | INPUT CURRENT |           |
|--------------|---------------------|----------------|------------------|---------------|-----------|
|              |                     |                |                  | NO LOAD       | FULL LOAD |
| TP1101       | 9-18 VDC            | 5 VDC          | 5000 mA          | 30 mA         | 2800 mA   |
| TP1102       |                     | 12 VDC         | 2500 mA          | 30 mA         | 3200 mA   |
| TP1103       |                     | 15 VDC         | 2000 mA          | 30 mA         | 3200 mA   |
| TP1104       |                     | ±12 VDC        | ±1250 mA         | 25 mA         | 3050 mA   |
| TP1105       |                     | ±15 VDC        | ±1000 mA         | 25 mA         | 3050 mA   |
| TP1106       |                     | +5/±12 VDC     | 3000/±450 mA     | 50 mA         | 2900 mA   |
| TP1107       |                     | +5/±15 VDC     | 3000/±350 mA     | 50 mA         | 2750 mA   |
| TP1108       |                     | +5/+12/-5 VDC  | 3000/450/1000 mA | 50 mA         | 2850 mA   |
| TP1111       | 18-36 VDC           | 5 VDC          | 5000 mA          | 20 mA         | 1350 mA   |
| TP1112       |                     | 12 VDC         | 2500 mA          | 20 mA         | 1550 mA   |
| TP1113       |                     | 15 VDC         | 2000 mA          | 20 mA         | 1550 mA   |
| TP1114       |                     | ±12 VDC        | ±1250 mA         | 25 mA         | 1500 mA   |
| TP1115       |                     | ±15 VDC        | ±1000 mA         | 25 mA         | 1500 mA   |
| TP1116       |                     | +5/±12 VDC     | 3000/±450 mA     | 40 mA         | 1350 mA   |
| TP1117       |                     | +5/±15 VDC     | 3000/±350 mA     | 40 mA         | 1300 mA   |
| TP1118       |                     | +5/+12/-5 VDC  | 3000/450/1000 mA | 40 mA         | 1300 mA   |
| TP1121       | 36-72 VDC           | 5 VDC          | 5000 mA          | 20 mA         | 670 mA    |
| TP1122       |                     | 12 VDC         | 2500 mA          | 20 mA         | 770 mA    |
| TP1123       |                     | 15 VDC         | 2000 mA          | 20 mA         | 770 mA    |
| TP1124       |                     | ±12 VDC        | ±1250 mA         | 15 mA         | 730 mA    |
| TP1125       |                     | ±15 VDC        | ±1000 mA         | 15 mA         | 730 mA    |
| TP1126       |                     | +5/±12 VDC     | 3000/±450 mA     | 30 mA         | 650 mA    |
| TP1127       |                     | +5/±15 VDC     | 3000/±350 mA     | 30 mA         | 650 mA    |
| TP1128       |                     | +5/+12/-5 VDC  | 3000/450/1000 mA | 30 mA         | 650 mA    |



Bottom View

| PIN CONNECTIONS |             |          |            |
|-----------------|-------------|----------|------------|
| PIN             | SINGLE      | DUAL     | TRIPLE     |
| 1               | + input     | + input  | + input    |
| 2               | - input     | - input  | - input    |
| 3               | No Pin      | + output | +output    |
| 4               | Output Trim | Common   | Common     |
| 5               | No Pin      | - output | - output   |
| 6               | + output    | No Pin   | +5V Output |
| 7               | - output    | No Pin   | No Pin     |
| 8               | On/Off      | On/Off   | On/Off     |