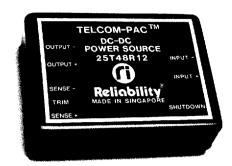
TELCOM-PACTM 25/30 WATT DC/DC CONVERTERS FOR TELECOMMUNICATIONS

KEY FEATURES

- Designed For Telecommunications &
 - Wide Input Applications
- Input/Output Isolated
- Short Circuit Protection
- Pi Input Filter
- No Derating To 71°C
- Designed To Meet FCC SEC 15, Sub-part J, Class B Radiated, Class A Conducted
- 100% Burned-In And Triple Tested
- Efficiencies Exceed 75%
- Six-Sided Copper Shielding
- 3 Year Warranty



SPECIAL FEATURES

- Remote Sense
- External Trim
 - Adjustment (±10%)
- Remote Shutdown

APPLICATIONS

- Test Equipment
- Analog Networks
- Distributed Power Systems
- Telecommunications Systems

DESCRIPTION

The 25/30 Watt Telcom-Pac DC/DC converters are designed for the demanding requirements of the telecommunications industry. The encapsulated construction includes six sided copper shielding and a built-in π input filter to minimize reflected ripple. A shunt diode also protects the converter from reverse input polarity.

The 25/30 Watt Telcom-Pac DC/DC converters provide several special features. The output voltage sense enables the converters to achieve accurate output voltage and optimum regulation at the load. The remote shutdown feature allows power on/off with a 5 volt logic signal. An external adjustment trims the output to a desired voltage level.

SELECTION GUIDE Standard Products

| DEVICE TYPE | INPUT VOLTAGE RANGE VDC | INPUT CURRENT A (MAX) | OUTPUT VOLTAGE VDC | OUTPUT CURRENT A (MAX) | PACKAGE/ PINOUT |
|---------------------------------|----------------------------------|-----------------------------|--------------------------|------------------------------|--------------------|
| 25T48R5 25T48R12 25T48R15 | 20 - 72 20 - 72 20 - 72 | .690 .780 .780 | 5.0 12.0 15.0 | 5.0 2.5 2.0 | T T |

APPLICATION NOTES FOR SPECIAL FEATURES

| REMOTE OUTPUT | EXTERNAL TRIMMING OF OUTPUT | REMOTE SHUTDOWN |
|--|--|--|
| Connect pin 3 to "+" side of load and connect pin 5 to "-" side of load (see Fig. 1). If remote sense is not used connect pin 3 to pin 6 and pin 5 to pin 7 (see Fig. 2) | The output voltage may be trimmed (±10%) by connecting a trimpot or a fix resistor as shown. | Connect Logic Signal to pin 8 Low (unit is off) *0 to 0.4VDC High (unit is on) *5.0 to 72VDC or open Input Idle Current 15mA Max (With pin 8 low Vin=72VDC) |
| | 50 Trim Sup (decrease) | |
| | 30 Trim Down (increase) | *with respect to pin 2 |

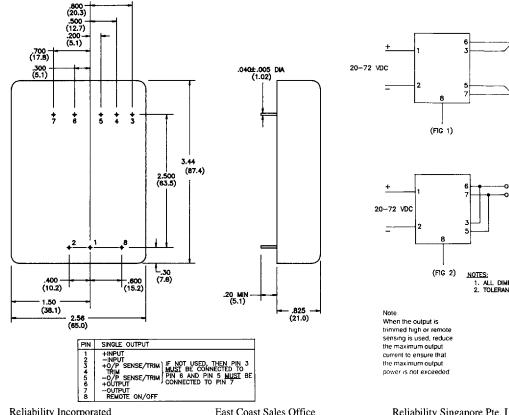




GENERAL ELECTRICAL SPECIFICATIONS

(Specifications at Nominal Input and 25°C)

| PARAMETER | LIMIT | CONDITIONS |
|---|--|--|
| Input Voltage Range Input Filter Reflected Input Ripple Input/Output Isolation Leakage Current Output Voltage Accuracy Load Regulation Line Regulation Temperature Coefficient Output Noise/Ripple Short Circuit Protection Switching Frequency Operating Temperature Derating Storage Temperature Shielded Case Undervoltage Lockout Turn-on Time Transient Response FCC Sect. 15 Sub Part J | 20 - 72 VDC Pi Network 25ma, P-P (Max.) 500 VDC <0.5 µA ±1.0% 25mv 25mv ±0.02%/°C 50mv, P-P (Max.) Constant Current 85KHz -25°C to +71°C None -55°C to +125°C Six-Sided Copper 18VDC ±10% 50msecs (Max.) 200 µsecs Yes | All Device Types All Device Types Nom. Line at Full Load All Units With 500 VDC Applied Nom. Line at Full Load 20%-Full Load (with remote sense connected) 20-72 VDC (with remote sense connected) Typical 20Hz-20MHz Bandwidth Continuous Typical All Units To 71°C Connected to Pin 2 Nom. Line at Full Load 25% Step Load Change Class B Radiated, Class A Conducted |



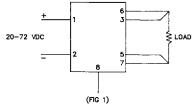
Reliability Incorporated P.O. Box 218370 Houston, TX 77218 TEL: (713) 492-0550 FAX: (713) 492-0615

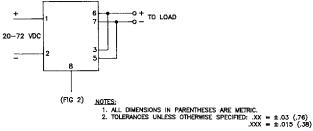
RICR de Costa Rica S.A. P.O. Box 1-3006 Zone Franca Metropolitana Barreal, Heredia Costa Rica, A.C. TEL: 506-293-4384 FAX: 506-293-4621

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