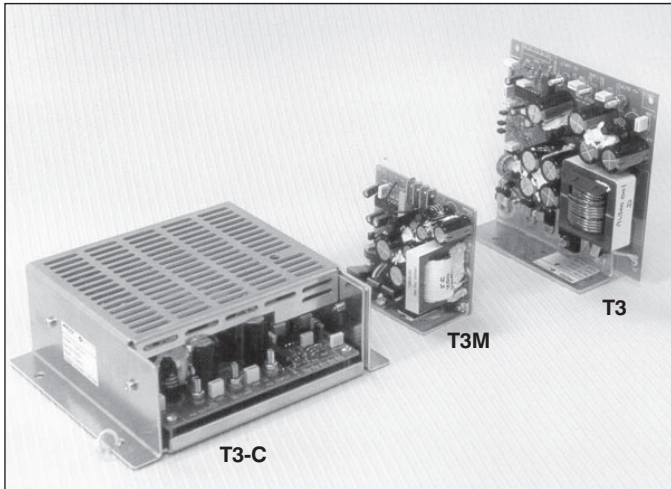


T3 SERIES

DC/DC Single Output: 300 Watts



Features

- Wide input non-isolated DC-DC converters
- Step-down and step-up models
- High efficiency typically 90% for 24/12V model
- Open frame or cased options
- Offers off the shelf solutions for non-standard DC-DC applications
- Low noise EN55022B
- Overload protection
- Over temperature protection - auto recovery
- Remote sense T3M and T3 step down models
- **Option E** = Tropicalised
- **Option M** = Ruggedised
- High MTBF 500,000 hours

Specifications

| | |
|----------------------------|---|
| INPUT VOLTAGE: | DC input - refer to table • T3 and T3M Step Down Converters, input must be >3V of output voltage setting |
| OUTPUT VOLTAGE: | Refer to table |
| PARALLEL OPERATION: | Consult office |
| OUTPUT POWER: | Model dependent typically 300 watts |
| EFFICIENCY: | Model dependent up to 95% |
| INPUT FUSE: | Not fitted, external fuse should be fitted for protection |
| INPUT CURRENT: | T3M: 14A T3: 22A T3SU: 30A (1224 model) 15A (2448 model) |

| | | | | | | | | | | | | | | | |
|-------------------------------|---|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|----|
| OVP: | Not fitted | | | | | | | | | | | | | | |
| OVERLOAD PROTECTION: | Current limited, refer to table, with auto recovery | | | | | | | | | | | | | | |
| OVER TEMP. PROTECTION: | Shutdown at high temperature with auto recovery | | | | | | | | | | | | | | |
| RIPPLE & NOISE: | Typically 250mV pk - pk | | | | | | | | | | | | | | |
| REGULATION STATIC: | <1% | | | | | | | | | | | | | | |
| REGULATION DYNAMIC: | <1% for 25% load step | | | | | | | | | | | | | | |
| REGULATION LINE: | <0.5% | | | | | | | | | | | | | | |
| EMC: | EN55022 B conducted | | | | | | | | | | | | | | |
| OPERATING TEMPERATURE: | 0°C to +40°C with additional external heatsink/forced air. Over temperature protection fitted standard | | | | | | | | | | | | | | |
| HUMIDITY: | 0-90% non-condensing | | | | | | | | | | | | | | |
| SHOCK & VIBRATION: | MIL std 810 ... option "M" ruggedised | | | | | | | | | | | | | | |
| ISOLATION: | Input - output: non-isolated, common negative | | | | | | | | | | | | | | |
| REMOTE SENSE: | Standard on T3M and T3 step down models | | | | | | | | | | | | | | |
| MTBF: | 500,000 hours | | | | | | | | | | | | | | |
| DIMENSIONS - OPEN: | T3M: 83 x 65 x 40mm T3 & T3SU: 120 x 120 x 32mm | | | | | | | | | | | | | | |
| DIMENSIONS - CASE: | T3M: 130 x 73 x 53mm T3 & T3SU: 160 x 126 x 53mm | | | | | | | | | | | | | | |
| CONNECTIONS: | T3M Series: <table border="1" data-bbox="1241 1899 1469 1951"> <tr> <td>+VE</td> <td>-VE</td> <td>-VE</td> <td>+VE</td> </tr> <tr> <td>OUT</td> <td>OUT</td> <td>IN</td> <td>IN</td> </tr> </table> T3/T3SU Series: <table border="1" data-bbox="1241 1973 1410 2024"> <tr> <td>+VE</td> <td>-VE</td> <td>+VE</td> </tr> <tr> <td>OUT</td> <td>COM</td> <td>IN</td> </tr> </table> | +VE | -VE | -VE | +VE | OUT | OUT | IN | IN | +VE | -VE | +VE | OUT | COM | IN |
| +VE | -VE | -VE | +VE | | | | | | | | | | | | |
| OUT | OUT | IN | IN | | | | | | | | | | | | |
| +VE | -VE | +VE | | | | | | | | | | | | | |
| OUT | COM | IN | | | | | | | | | | | | | |

| MODEL | Input | Output | | Current Limit |
|--------------------------------|----------|----------|-----|---------------|
| | | V | A | |
| T3M - 6130 - C T3M - 6130 | 10 - 60V | 0 - 30V | 10A | 10~15A |
| T3 - 6115 - C T3 - 6115 | 10 - 60V | 0 - 15V | 20A | 20~30A |
| T3 - 6130 - C T3 - 6130 | 10 - 60V | 0 - 30V | 12A | 12~18A |
| T3SU - 1224 - C T3SU - 1224 | 10 - 18V | 18 - 27V | 10A | 10~15A |
| T3SU - 2448 - C T3SU - 2448 | 20 - 36V | 36 - 54V | 5A | 5~7A |

• C = Vented case model