Plays in the Rain
Provides up to 100 watts of linear power at the flange in a rugged and compact weatherproof package, digital ready, for wideband, single- and multi-carrier satellite service in the 14.0-14.5 GHz or 13.75-14.50 GHz frequency bands. An L-Band Block Upconverter is included as standard. Ideal for transportable and fixed earth station applications.

Cost Effective and Efficient
Mounting at the antenna improves performance through minimized cable losses and saves cost in system design. Employs a high efficiency, dual-depressed collector helix traveling wave tube, reducing operating costs.

Reliable
Designed and built to survive in extremely adverse environmental conditions and features increased cooling margin for longer life.

Simple to Operate
User-friendly microprocessor-controlled logic with integrated Ethernet computer interface. Digital metering, pin diode attenuation and optional integrated linearizer for improved intermodulation performance.

Easy to Maintain
Modular design and built-in fault diagnostic capability via remote monitor and control.

Global Applications

Worldwide Support
Backed by over two decades of satellite communications experience, and CPI’s worldwide 24-hour customer support network that includes sixteen regional factory service centers.
OPTIONS:

- Remote Control Panel
- Extended Frequency: 13.75-14.5 GHz; 12.75-13.25 GHz
- Redundant and Power Combined Subsystems
- External Receive Band Reject Filter (Increases loss by a minimum 60 dB up to 12.7 GHz)
- Integrated 1:1 switch control and drive
- Integral Linearizer
- Remove BUC - contact CPI for details on specifications

SPECIFICATIONS, TL02UO BUC

Electrical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>950 MHz to 1450 MHz (input) 14.0 to 14.5 GHz (output)</td>
</tr>
<tr>
<td>Output Power</td>
<td>TWT Peak Power 250 W min. (53.98 dBm) Flange Peak Power* 220 W min. (53.42 dBm) Linear power at flange 40 W min. (46.0 dBm) CW output power at flange 100 W (max.)</td>
</tr>
<tr>
<td>Intermodulation</td>
<td>-25 dBc max. (from IMD to carrier) @ 7 dB OBO (at 4 dB OBO with optional linearizer)</td>
</tr>
<tr>
<td>Primary Power</td>
<td>100-240 VAC ±10% single phase, 47-63 Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>550 VA max. 500 VA typ. at 100 W output power 300 VA typ. at 1 W output power</td>
</tr>
<tr>
<td>Power Factor</td>
<td>0.95 min.</td>
</tr>
<tr>
<td>Power Factor</td>
<td>0.95 min.</td>
</tr>
</tbody>
</table>
| Environmental (Operating)  | Ambient Temperature -40°C to +60°C operating, including solar loading; -40°C to +71°C non-operating Relative Humidity 100% condensing Altitude 10,000 ft. with standard adiabatic derating of 2°C/1000 ft., operating; 50,000 ft., non-operating Shock 20 g pk, 11 mS, 1/2 sine Vibration 3 gms Acoustic Noise 65 dBA @ 3 ft. from amplifier Mechanical Cooling Forced air with integral blower L-Band Input Connection Type N female RF Output Connection WR-75 waveguide flange, grooved with UNC 2B 6-32 threaded holes RF Output Monitor Type N female, 44 dB nom. Dimensions (W x H x D) 8.5 x 8.5 x 15 in. max. (216 x 216 x 381 mm) Weight 25 lbs (11.4 kg) typ

*Note: This amplifier provides a maximum of 100 W CW power at the flange. The Flange Peak Power specification (220 W) is provided so that the user can more easily calculate the desired backoff level from peak.

For more detailed information, please refer to the corresponding CPI Technical Description.

Note: Specifications may change without notice as a result of additional data or product refinement.

Please contact CPI before using this information for system design.