Communications & Power Industries High Power Transmitters: customized for your application

Contact us at BMDMarketing@cpii.com or at call us at +1 978-922-6000.

### Typical Operating Parameters

<table>
<thead>
<tr>
<th>Transmitter Application</th>
<th>Frequency Band</th>
<th>Peak Power Range</th>
<th>Average Power Range</th>
<th>Based On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weather Radar</td>
<td>S</td>
<td>850 kW – 1000 W</td>
<td>2 kW</td>
<td>Klystron, Magnetron</td>
</tr>
<tr>
<td>Weather Radar</td>
<td>C</td>
<td>250 kW - 1000 W</td>
<td>0.6 kW – 2 kW</td>
<td>Klystron, Magnetron</td>
</tr>
<tr>
<td>Weather Radar</td>
<td>X</td>
<td>300 kW</td>
<td>0.3 kW</td>
<td>Klystron, Magnetron</td>
</tr>
<tr>
<td>Industrial and Scientific</td>
<td>Ka</td>
<td>100 W – 10 kW</td>
<td>100 W – 10 kW (min) CW</td>
<td>Gyrotron</td>
</tr>
<tr>
<td>Industrial and Scientific</td>
<td>L</td>
<td>90 kW</td>
<td>6.4 kW</td>
<td>IOT</td>
</tr>
<tr>
<td>Instrumentation Amplifier</td>
<td>C</td>
<td>60 kW</td>
<td>3 kW</td>
<td>CCTWT</td>
</tr>
<tr>
<td>Instrumentation Amplifier</td>
<td>X</td>
<td>15 kW – 17 kW</td>
<td>600 W - 1020 W</td>
<td>CCTWT</td>
</tr>
<tr>
<td>Instrumentation Amplifier</td>
<td>L</td>
<td>2 kW, 4 kW and 7.5 kW</td>
<td>80 W, 160 W, 300 W</td>
<td>TWT</td>
</tr>
<tr>
<td>Instrumentation Amplifier</td>
<td>S</td>
<td>4.2 kW and 8 kW</td>
<td>250 W, 480 W</td>
<td>TWT</td>
</tr>
<tr>
<td>Instrumentation Amplifier</td>
<td>C</td>
<td>4.2 kW and 8 kW</td>
<td>250 W, 480 W</td>
<td>TWT</td>
</tr>
<tr>
<td>Instrumentation Amplifier</td>
<td>X</td>
<td>5 kW and 8 kW</td>
<td>300 W, 480 W</td>
<td>TWT</td>
</tr>
<tr>
<td>Instrumentation Amplifier</td>
<td>Ku</td>
<td>3.2 kW and 6 kW</td>
<td>192 W, 360 W</td>
<td>TWT</td>
</tr>
<tr>
<td>Airborne and Surveillance</td>
<td>2-18 GHz</td>
<td>250 W</td>
<td>CW</td>
<td>EW TWT</td>
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<tr>
<td>Airborne and Surveillance</td>
<td>J</td>
<td>400 W</td>
<td>CW</td>
<td>TWT</td>
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<tr>
<td>Airborne and Surveillance</td>
<td>2-18 GHz</td>
<td>100 W - 10 kW</td>
<td>CW</td>
<td>Booster TWT</td>
</tr>
</tbody>
</table>

### High Power Transmitters

- **S and C Bands**
- **Magnetron Transmitters**
- **TWT Transmitters**
- **CCTWT Transmitters**
- **Klystron Transmitters**
- **C and X Bands**
- **Pulsed Instrumentation Amplifiers**

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design. Contents are strictly prohibited without written authorization from CPI.
High Power Transmitters

Check out all the CPI Beverly Microwave Division radar transmitters at www.cpii.com/bmd

Weather Radar Transmitters

Klystron Weather Radar Transmitters
- S, C, and X-Band transmitters
- Excellent stability & performance
- Tunable
- Up to 1 MW peak output power
- Forced air cooled
- Touch screen with local/remote control
- Ethernet connectivity for remote monitoring & control

Magnetron Weather Radar Transmitters
- S, C, and X-Band transmitters
- Sheltered or outdoor models
- Forced air cooled
- Touch screen with local/remote control
- Excellent Doppler performance
- Mechanically tunable frequency
- Ethernet connectivity for remote monitoring & control

Industrial and Scientific Transmitters

IOT, Gyrotron and TWT Transmitters
- Liquid cooled
- Four port circulator available
- GaN Solid State Power Amplifier Driver
- Superior stability, phase and amplitude ripple
- High power, high efficiency
- User friendly control and operation

EMC/TWT Pulsed Transmitters

S-Band TWT Compact Pulsed Amplifiers
- Single phase AC power
- Local or remote control
- Wide RF bandwidth
- GPIB remote

X-Band TWT Compact Pulsed Amplifiers
- Mobile
- GPIB remote
- touchscreen
- Waveguide output

Airborne and Surveillance Radar Transmitters

Airborne Radar Transmitters
- S, C, and X-Band transmitters
- Ruggedized design
- Outstanding power per volume
- Easy to control/operate
- Forced air cooled
- High levels of readiness

Surveillance Radar Transmitters
- S, C, and X-Band transmitters
- Resonant high voltage power supply
- Forced air cooled
- Outstanding power per volume