Introduction

The Anywave MAGMA series of Liquid Cooled TV transmitters provides the broadcaster with the greatest power density and highest operating efficiencies in digital transmitters today. The MAGMA series delivers a broadband solution with peak levels of performance and reliability. These Solid State transmitters range in output power from 6kW ATSC (4.8kW OFDM) to 150kW ATSC (120kW OFDM), with 25kW ATSC output from a single rack. They operate across all modulation standards including DVB-T/H, DVB-T, DVB-T2, ATSC, ATSC3.0, ISDB-T and DTMB. The MAGMA series incorporates the powerful correction capabilities of the ACT 5X+ or 9X digital exciter platforms.

Key Facts

✓ Multi-standard capability: DVB-T/H, DVB-T, DVB-T2, ATSC, ATSC3.0, ISDB-T and DTMB
✓ Transmitter efficiency up to 45% (amplifier efficiency > 50%)
✓ Implements latest state-of-the-art Asymmetrical Broadband Doherty Technology
✓ 16 x BLF888E (ultra high efficiency, Broadband) transistors provide power densities of 2.8kW (ATSC) per amplifier
✓ Modular for optimal flexibility and ease of maintenance
✓ Superior Liquid Cooling system incorporates Friction Stir Welded and Graphene Enhanced Thermal Management technologies
✓ Optitune™ technology automatically optimizes performance and efficiency at any power level
✓ Redundant hot swappable Power Supply Units
✓ Remote monitoring and control via Web Browser and SNMP
# Power Requirements / Dimensions

## HPTV Series - UHF

<table>
<thead>
<tr>
<th>Number of Amplifiers / rack</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Power (RMS) ATSC (1)</td>
<td>5,900</td>
<td>8,890</td>
<td>11,900</td>
<td>14,200</td>
<td>17,000</td>
<td>22,650</td>
<td>28,300</td>
</tr>
<tr>
<td>Output Power (rms) ATSC (2)</td>
<td>5,000</td>
<td>7,500</td>
<td>10,000</td>
<td>12,500</td>
<td>15,000</td>
<td>20,000</td>
<td>25,000</td>
</tr>
<tr>
<td>Output Power (RMS) COFDM (1)</td>
<td>4,700</td>
<td>7,100</td>
<td>9,500</td>
<td>11,400</td>
<td>13,600</td>
<td>18,100</td>
<td>22,600</td>
</tr>
<tr>
<td>Output Power (rms) COFDM (2)</td>
<td>4,000</td>
<td>6,000</td>
<td>8,000</td>
<td>10,000</td>
<td>12,000</td>
<td>16,000</td>
<td>20,000</td>
</tr>
</tbody>
</table>

### Specifications

- **Height (inches / mm)**: 78 / 2000
- **Width (inches / mm)**: 30 / 765
- **Depth (inches / mm)**: 43.3 / 1100
- **AC Input Voltage**: 208VAC or 277/480VAC Three φ
- **AC Input Frequency**: 50 / 60 Hz
- **Consumption - Max. - KW**: 14.0, 21.2, 28.3, 33.8, 40.5, 53.9, 67.4
- **Consumption - Typical - KW**: 12.8, 19.3, 25.9, 30.9, 37.0, 49.2, 61.5
- **Current Rating Per φ - Max. (A)**: 58.3, 88.3, 117.9, 140.8, 168.8, 224.6, 280.8

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**Cost Effective 100%**

**Reliable 100%**

**Scalable 100%**

**Dependable 100%**

We have your broadcast transmission needs covered

www.anywavecom.net

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*Specification details subject to change without notice*