



LOW POWER LIQUID COOLED SOLID STATE UHF/VHF TV TRANSMITTER



Introduction

The new Anywave **MAGMA LP** series of Liquid Cooled UHF TV transmitters provide the broadcaster with the latest state-of-the-art digital transmitter design and the highest level of performance available anywhere, in a very compact package. The power capability of these single amplifier liquid cooled Solid State transmitters range from 1200W ATSC 1.0 (790W OFDM) to 3.4KW ATSC 1.0 (2.24KW OFDM) UHF (power level before filter). They operate across all TV standards including DVB-T, DVB-T2, ATSC, ATSC3.0, ISDB-T, DTMB, NTSC, and PAL. The **MAGMA LP** series incorporates the powerful correction capabilities of the Anywave exciter platforms. In addition, the products offer a unique quiet indoor liquid cooled operation with many exceptional features not available anywhere else in the industry.

Key Features

- ✓ Multi-standard capability: DVB-T, DVB-T2, ATSC, ATSC3.0, ISDB-T, DTMB, NTSC, and PAL
- ✓ Implements latest state-of-the-art asymmetrical broadband Doherty technology for ruggedness, cool operation and transmitter efficiencies up to 40%
- ✓ Innovative hot swappable module design provides quick and easy onsite pallet replacement (one pallet per module)
- ✓ Each module includes a cold plate and can be removed without the removal of any other components
- ✓ Incorporates redundant, hot-swappable power supplies
- ✓ Heat exchanger and pumps are built directly into the TX cabinet – incorporating the best aspects of air cooling along with the stability and cooler operation of liquid cooling in this self-contained system
- ✓ Industry-leading adaptive linear and non-linear correction – Anywave’s own exciter
- ✓ Simple compact cooling system with whisper-quiet design – ideal for low noise environments
- ✓ LCD Touch Screen Control System
- ✓ Remote monitoring and control via a web browser and SNMP



Magma LP Series Specifications (Power ratings before bandpass filter)

| MAGMA LP Series - UHF | | | |
|--|-----------------------|---------|---------|
| Standard | All ⁽²⁾ | | |
| Band | UHF | | |
| Number of Amplifier Rows | 1 | 1 | 2 |
| Output Power (RMS) ATSC | 1200 | 2000 | 3400 |
| Output Power (RMS) OFDM | 790 | 1320 | 2240 |
| Output Power (Peak) Analog | 2760 | N/A | N/A |
| Output Connector | 1-5/8" EIA | | |
| Height (inches/mm) | 31.3/1794 | | |
| Width (inches/mm) | 23.6/600 | | |
| Depth (inches/mm) | 47.3/1200 | | |
| Weight(LBS/Kg) | 700/318 | 720/328 | 800/363 |
| AC input frequency | 50/60 Hz | | |
| AC input voltage | 240 VAC Single ϕ | | |
| Consumption - ATSC 1.0 - W | 3050 | 5050 | 8550 |
| Current rating per ϕ - ATSC 1.0 - A | 12.7 | 21 | 35.6 |
| Consumption - OFDM - W | 2030 | 3350 | 5650 |
| Current rating per ϕ - OFDM - A | 8.5 | 14 | 23.5 |
| Consumption - Analog (Peak) - W | 4880 | N/A | N/A |
| Current rating per ϕ - Analog - A | 20.3 | N/A | N/A |

(1) Power measured before band pass filter

(2) Standards include ATSC, ATSC 3.0, DVB-T, DVB-T2, ISDB-T, CMMB, DTMB, NTSC, PAL

Cost Effective 100%

Reliable 100%

Scalable 100%

Dependable 100%

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