



## GRANITE SERIES

### PRODUCT SPECIFICATIONS

# MEDIUM POWER AIR COOLED SOLID STATE UHF TV TRANSMITTER

## Introduction

The Anywave **GRANITE** series of Air Cooled UHF TV transmitters provides the broadcaster with the latest state-of-the-art digital transmitter design. The **GRANITE** series delivers the highest levels of performance and reliability without costing you extra. The power capability of these forced air cooled Solid State (50V LDMOS technology) transmitters range from 1.3kW ATSC (1.1kW OFDM) to 10.0kW ATSC (8.8kW OFDM). They operate across all modulation standards including DVB-T/H, DVB-T, DVB-T2, ATSC, ATSC3.0, ISDB-T and DTMB. The **GRANITE** 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
- ✓ 8 x BLF888E (ultra high efficiency, Broadband) transistors provide power densities of 1.3kW (ATSC) per amplifier
- ✓ Modular for better reliability and ease of maintenance
- ✓ Optitune™ technology automatically optimizes performance and efficiency at any power level
- ✓ Redundant hot swappable Power Supply Units
- ✓ Simple and Efficient Front-to-Back Air Cooling with fan speed control and Graphene Enhanced Thermal Management technologies
- ✓ LCD Touch Screen Control System
- ✓ Remote monitoring and control via Web Browser and SNMP

# Power Requirements / Dimensions

MHPTV Series - UHF							
Number of Amplifiers	1	2	3	4	5	6	8
Output Power (RMS) ATSC (1)	1,300	2,600	3,800	5,000	6,000	7,500	10,000
Output Power (rms) ATSC (2)	1,100	2,200	3,300	4,400	5,500	6,600	8,800
Output Power (RMS) COFDM (1)	1,100	2,200	3,300	4,500	5,400	6,500	8,600
Output Power (rms) COFDM (2)	930	1,860	2,850	3,800	4,750	5,700	7,600
Output Connector	1 5/8"					3 1/8"	
Height (inches / mm)	49 / 1245		65.6 / 1666			79.6 / 2022	
Width (inches / mm)	28.5 / 724			28.5 / 724		28.5 / 724	
Depth (inches / mm)	33.5 / 851			33.5 / 851		33.5 / 851	
AC Input Voltage (3)	240VAC Single $\phi$ (1 or 2 PA) or 208VAC / 480VAC Three $\phi$						
AC Input Frequency	50 / 60 Hz						
Consumption - Max. - KW	3.3	6.7	9.7	12.8	15.4	19.2	25.6
Consumption - Typical - KW	3.1	6.2	9.0	11.9	14.3	17.9	23.8
Current Rating Per $\phi$ - Max. (3)	13.8	27.9	27 / 11.7	35.6 / 15.4	42.8 / 18.5	53.4 / 23.1	71.1 / 30.8

(1) Power measured before Band Pass Filter

(2) Power measured after Band Pass Filter

(3) Currents for 1 and 2 PA are 240VAC Single  $\phi$ , 3PA and higher are 208/480VAC Three  $\phi$

**Cost Effective 100%**

**Reliable 100%**

**Scalable 100%**

**Dependable 100%**

**We have your broadcast transmission needs covered**  
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