



# ANTENNA EXPERTS

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Model # FMV-88-108      88 – 108 MHz.      6dBd. Gain

## FM Broadcast High Gain Omnidirectional Stacked Dipole Array

**DESIGN FEATURES:** The FMV-88-108 high performance FM broadcast sacked dipole array is designed for use with community broadcast station for vertical polarized omni-directional coverage. The FMV-88-108 antenna is consisting of 6063T6 ultra corrosion resistant architectural anodized aluminum alloy. The FMV-88-108 is heavy duty stacked dipole array features, wide bandwidth, high gain, high power handling capacity, low VSWR, low noise performance and null filling coverage with omni directional characteristics. This stacked dipole array is highly suitable as base station antennas for FM broadcasting sites.

**CONSTRUCTIONS:** The FMV-88-108 Stacked Dipole Array consists of FOUR dipoles stacked vertically, fed in phase. Termination of phasing harness cable sealed by heat shrinking tube making stacked dipole antenna waterproofing. The 9 Meters long central mast for mounting the dipoles is shipped in four sections of 3 Meters each for easy of shipping. The stacked dipole antenna is suitable for side mounting on the tower and is supplied with mounting hardware to mount the antenna on the side of the antenna tower. The antenna is supplied with 4 ways power splitter and 4 number of low loss phasing harness cables (one each for each dipole). The complete antenna system, power splitter and its phasing harness cables are weather proof.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	88 - 108 MHz.
Gain	6 dBd. (8.15dBi) Omni
Bandwidth	10 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	18 degrees
VSWR – Better Than	1.5 : 1
RF Power Handling Capacity	1000 watts.
Input Termination	DIN-Female
Finish / Color	Silver Gray or Mil Green

### MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	12 Meters
Support Pipe Aluminum – Outer Diameter	51 mm
Dipoles Aluminum – Outer Diameter	25 mm
Shipping Length	3 Meters
Dipoles & Support Pipe Materials	6063T6 Aluminum Alloy
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Gross Weight	45 Kgs.

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

