

High Power Speaker Arrays

MN-GVD Series, MN-GVM Series



MN-GVM Series Omnidirectional Speaker Array

Overview

EST brand High Power Speaker Arrays (HPSA) produce highly intelligible audio for the most demanding outdoor applications. These units are available in a number of different configurations and can, depending on terrain/weather, provide Mass Notification/ Emergency Communication (MNEC) or other audio functions for areas as large as a radial mile.

All units operate on 24 VDC, and can be charged from line power and/or solar arrays. HPSAs are interfaced to, and controlled by, the EST3-Sixty family of MNEC and Life Safety System solutions.

MN-GVD Series are made up of a single or multiple 400-watt maintenance-free speakers that can be aimed where sound energy is needed. These rugged re-entrant units are made of durable, powder-coated spun aluminum that will provide many years of outstanding performance. Units can be ordered with 90, 180, 270 or a full 360-degree horizontal angle of dispersion.

MN-GVM Series comprises single or multiple levels of omnidirectional 800-watt maintenance-free speakers. Aesthetically pleasing housings are color-impregnated fiberglass units that blend into the background until they are needed. Then they generate unparalleled omni-directional and highly-intelligible audio power.

Standard Features

- Rugged, proven performance
- Modular, easily-serviced electronics
- Clean, reliable and supervised interfaces into the EST3-Sixty platform
- Maintenance-free speakers
- Multiple mounting methods

Applications

- Universities & colleges
- Military bases
- · Outdoor commercial facilities
- Industrial complexes
- Weather warning systems
- Air fields
- Stadiums

- Stadiums
- Golf courses
- Camp grounds
- Amusement parks
- Open mines
- Flood warning systems
- Civil defense systems

Electronic Control Cabinets (ECCs) for the MN-GVD and MN-GVM series speaker arrays are lockable, NEMA 4X enclosures that are available in two physical sizes. ECCs are factory assembled with one to eight 400-watt audio amplifiers and support electronics. The units are powered from rechargeable batteries that are kept in ready state by a line-powered and/or solar-powered regulated charging system.

Internal LEDs provide for quick equipment status information. Amplifiers are individually fused and each is equipped with hi/low output selector switches used for system maintenance and deployment.

ECCs are interfaced to the EST3-Sixty via supervised circuits and electronics. This interface allows system operators to easily control the HPSAs, as well as interior MNEC systems – all from one location.

Rechargeable batteries are enclosed in separate, ventilated, lockable NEMA 4X enclosures that are fixed to the ECC.

ECCs and battery enclosures are equipped with tamper switches that are monitored by the EST3-Sixty.

Installation

For optimum sound dispersion, HPSA speakers should be mounted 45-55 ft. (13.7-16.6m) above grade. Poles, pole-mounting kits, wall mounting brackets and roof-mount mounting kits are available. Electronic Control Cabinets (ECCs) are mounted under or near the speakers.

Controls

Specifications Oppoint directional MN-

Omni-directional MN-GVM S	eries
Acoustical Characteristics	Rating

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MN-GVM08	800 watts
MN-GVM16	1600 watts
MN-GVM24	2400 watts
MN-GVM32	3200 watts

Electrical

System Operating Voltage	24 V DC
Input Current	36 to 144 Amps DC
Battery Charger Voltage (Input)	120 VAC



Operating Temperature	-40° F to 140° F (-40° C to 60° C)
Storage Temperature	-85° F to 257° F (-65° C to 125° C)
Humidity	0%-100% (non-condensing)

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Size and Weight	MN-GVM16	MN-GVM32
Control Cabinet	24 x 24 x 8	36 x 24 x 8
$(L \times W \times H)$	inches	inches
	(61 x 61 x 20 cm)	(91 x 61 x 20 cm)
Battery Cabinet	24 x 24 x 8	24 x 24 x 8
$(L \times W \times H)$	inches	inches
	(61 x 61 x 20 cm)	(61 x 61 x 20 cm)
Siren Dimensions	53 x 56 inches	53 x 88 inches
(Diameter x Height)	(135 x 142 cm)	(135 x 224 cm)
Speaker Weight	490 lbs (222 Kg)	790 lbs (358 Kg)
Control Weight	200 lbs (91 kg)	220 lbs (100 kg)

Directional MN-GVD Series Acoustical Characteristics Rating MN-GVD04 90 degrees, one level 400W 1 horn MN-GVD08 180 degrees, one level 800W 2 horns MN-GVD12 270 degrees, one level 1200W 3 horns MN-GVD16 1600W 4horns 360 degrees, one level MN-GVD32 360 degrees, two levels 3200W 8 horns

Electrical

System Operating Voltage	24 VDC
Input Current	18 to 144 Amps DC
Battery Charger Voltage (Input)	120 VAC

Environmental

Operating Temperature	-40° F to 140° F (-40° C to 60° C)
Storage Temperature	-85° F to 257° F (-65° C to 125° C)
Humidity	0% to 100% (non- condensing)

Size and Weight	MN-GVD16	MN-GVD32
Control Cabinet (L x W x H)	24 x 24 x 8 inches (61 x 61 x 20 cm)	36 x 24 x 8 inches (91 x 61 x 20 cm)
Battery Cabinet (L x W x H)	24 x 24 x 8 inches (61 x 61 x 20 cm)	24 x 24 x 8 inches (61 x 61 x 20 cm)
Siren Dimensions (L x W x H)	64 x 64 x 20 inches (163 x 163 x 102 cm)	64 x 64 x 40 inches (163 x 163 x 51 cm)
Speaker Weight	315 lbs (143 Kg)	570 lbs (259 Kg)
Control Weight	200 lbs (91 kg)	220 lbs (100 kg)

Ordering Information

Speaker Arrays Sele MN-GVD04 HPS MN-GVD08 HPS MN-GVD12 HPS MN-GVD16 HPS MN-GVD32 HPS MN-GVM08 HPS MN-GVM09 HPS MN-GVM16 HPS MN-GVM24 HPS MN-GVM32 HPS MN-GVM32 HPS MN-GVM32 HPS MN-GVXINTD4 HPS MN-GVZINTLE HPS MN-GVZINTWE HPS MN-GVPMD HPS MN-GVPMM HPS MN-GVPMMA HPS MN-GVRMAD HPS MN-GVWBD1 HPS MN-GVWBD1 HPS MN-GVWP1 HPS MN-GVAMP4 HPS MN-GVANT1 HPS MN-GVBATEX HPS	Interfaces, batteries, mounting equipment, accessories and optional services below) It interfaces, mounting equipment and optional equipment/services/warranties below A Exterior directional high-power speaker array, 400 watt. 90 degree coverage. A Exterior directional high-power speaker array, 1,200 watt. 270 degree coverage. A Exterior directional high-power speaker array, 1,600 watt. 360 degree coverage. A Exterior directional high-power speaker array, 3,200 watt. 360 degree coverage. A Exterior directional high-power speaker array, 3,200 watt. A Exterior omni directional high-power speaker array, 800 watt. A Exterior omni directional high-power speaker array, 2,400 watt. A Exterior omni directional high-power speaker array, 2,400 watt. A Exterior omni directional high-power speaker array, 3,200 watt. A Exterior omni directional high-power speaker array, 3,200 watt. A to EST3 interface kit (hard wire). A to Wireless Encrypted Ethernet Interface kit. A to Wireless Encrypted Ethernet Interface kit. A Pole mount kit for MN-GVD Directional HPSA A Pole mount apparatus for MN-GVD Directional HPSA A Roof-mount apparatus for MN-GVD Directional HPSA A Pole mount bracket for MN-GVD Directional HPSA A Wall-mount bracket for MN-GVD Directional HPSA
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Options & Replacement MN-GVAMP4 HPS MN-GVANT1 HPS MN-GVANT2 HPS MN-GVBATEX HPS	Parts A 400 Watt replacement amplifier A Stand-Alone Omni-directional antenna kit
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MN-GVANT2 HPS MN-GVBATEX HPS	
MN-GVBATEX HPS	
MIN-GVBTT HPS	A Extra battery cabinet (w/o batteries)
	A 24v battery compliment (2 12V batteries)
	A Battery heating system (requires 120 VAC)
	A Cabinet heating element (requires 120 VAC)
	A Replacement power supply and charger
	A solar charging array (under 1600 watt) with power equalizer and regulator
	A solar charging array (over 1600 watt) with power equalizer and regulator
	A Replacement speaker circuit transient protector (4 circuits) 2 required for any system with 5-8 amplifiers
	A Cabinet high/low temperature sensor
	A Wireless Ethernet antenna surge protector
MN-GVWTN18 HPS	A Cabinet coax whip
Optional Services	
	A site commissioning - 2 days max 4 HPSA, w/o travel
MN-GVCON1 HPS	A Replacement 24 VDC contactor
MN-GVOSS1 HPS	A On-site standard installation (excluding pole, wall bracket or room mount installation), w/o travel
MN-GVST1 HPS	A On-site training, w/o travel
	A Site verification/assessment, w/o travel
MN-GVTRVL1 Trave	el expenses
Extended Warranties	
	A 2nd year extended warranty 3200 watt MN-GVD series
	A 2nd year extended warranty 3200 watt MN-GVD series A 2nd year extended warranty 400-1600 watt MN-GVD series
	A 2nd year extended warranty 400-1800 watt MN-GVM series.
	A 2nd year extended warranty 2400-3200 watt MN-GVM series. A 2nd year extended warranty 800-1600 watt MN-GVM series
IVIIN-GVIVIO IDEAVV HPS	A ZITU YEAF EXTERIUEU WAITAITIY OUU-TUUU WAILI WIN-GYIVI SERIES



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