

Specification Sheet

BMS 1000 Full Power Transportable Site



KEY APPLICATIONS

- Disaster Management
- Emergency Response
- Search and Rescue



BE PREPARED

The BMS 1000 site is a self-contained communications site with five-channel conventional capability. This standard package is a “plug and play” solution that can be quickly deployed in emergency situations when your primary communication system needs back-up or during special events when additional communications coverage is needed immediately. The BMS 1000 site can be shipped significantly faster than traditional sites.

RAPID DEPLOYMENT

The BMS 1000 site operates on 821 MHz mutual aid channels and allows operation with minimal interference to the existing communications infrastructure. The site arrives aboard a minimally sized trailer with an onboard generator, battery back up, transportable 50’ tower, and RF equipment installed in an environmentally controlled outdoor cabinet.

RESPONSE AND RECOVERY

The Office of Homeland Security identifies Response and Recovery as one of the critical components in preparing against attacks. With the BMS 1000 site, agencies can continue and even expand interoperable communications when situations demand it.

SCALABILITY

If your system needs additional channel capacity, trunked operation, console interface or expanded interoperability, this package can be modified to meet your operating requirements.

PREPARE ...RESPOND ...RECOVER

Advanced preparation results in systems and processes that are ready when they are needed. When looking to enhance your ability to respond in a crisis, look no further than Motorola.

GENERAL RADIO SPECIFICATIONS

Radio Configuration	Motorola Quantar™, Analog Conventional (Per Motorola Spec Sheet R3-2-127)
Frequencies Supported	821 MHz Mutual Aid, ICALL, TAC1-TAC4 <i>Other channel configurations are available and include UHF, VHF and 700/800 MHz frequencies.</i>
Output Power	20-100 Watts Variable Power
Frequency Stability	Ultra High Stability Oscillator
Input Power	48 VDC
Mounting Configuration	Rack Mount, in Enclosure

ENCLOSURE SPECIFICATIONS

Dimensions	63" H x 62" W x 42" D
Internal Equipment Space	Two 25RU Mounting Racks per Bay
120 VAC Power Management	Incoming Main Breaker, Surge Suppression, 24 circuit Distribution/Protection 700 Watt Uninterruptible Power Supply
48 VDC Management	70 Amps Maximum Load 7 Load Breakers 70 Amp Battery Disconnect
Environmental	Integral 10,500 BTU A/C
Battery Back-Up	1 Hour at Full Load, 46 Amp-Hour @ 48 VDC

GENERATOR SPECIFICATIONS

Enclosure	Vibration-Isolated, Outdoor
Type	Diesel
Rated RPM	1800
Power Output	15 KW 60 Hz
Voltage Regulation	Solid State, Frequency Compensated
On-Board Fuel Tank	137-Gallon Tank, Double Wall
Run Time at Full Load (5 channels)	3 Days Minimum

ON-BOARD TOWER SPECIFICATIONS

Height, Including Top-Mount Antenna	50 Feet, Extra Heavy Duty
Tower Loading Capacity	25 Sq. Ft. Surface Area, to 80 mph winds
Telescoping Sections	2, plus 8' Mast Top Section (2" Dia.)
Rung/Diagonal Construction	1" Dia. x .049" Wall, Aluminum Tube
Leg Construction	1.5" Dia. x .125" Wall, Aluminum Tube
Elevating Mechanism	Electric Winch, Roller/Pulley with Stops
Tower Stability	6 Guy Cable Assemblies with Anchors
Storage Box	Aluminum, 19" H x 20" W x 62" L
Antenna Storage	6" Diagonal, Up to 12' Long

TRAILER SPECIFICATIONS

Dimensions (with 50' Tower)	11' 3" H x 6' 6" W x 23' 9" L
Rear Clearance to Pivot Tower Up	8' 6"
Transport Vehicle Recommendation	Tow Vehicle Not Included – 1 Ton Pickup, Dual Axle preferred
Capacity	10,000 GVWR
Construction	Galvanized Steel
Axles	Dual Axle, 4 Wheel Electric Brakes
Tire Size	F78 X 14" Tires
Other Accessories	Locked and Mounted Spare Tire 12 VDC Winch Battery Pack Trailer Tool Kit Dual 12V Work Lights Electric Brake Breakaway Kit

OPTIONAL CONFIGURATIONS

Towers	75' Extra Heavy Duty 100' Heavy Duty
Site/Network Remote Access	Channel Bank, 1 T1 equipped, Upgradeable Alarm & Control, Network Management
"Last Mile" Connectivity	2.4 GHz Spread Spectrum Microwave



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