



FreeWave Radio Power System Solutions

Ventev supports your remote monitoring and SCADA applications with our line of outdoor integrated systems designed to protect most FreeWave radios. These preconfigured, powered cabinets are plug-and-play, designed with lightweight NEMA 4X enclosures and wired for power. Covering all your outdoor power needs, these Ventev powered enclosures are also available with battery backup and are ideal for Oil & Gas, Water and Electric Utility applications.

System Highlights

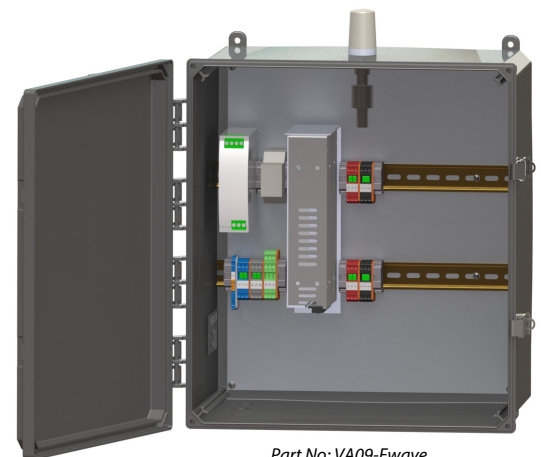
- ◇ Lightweight NEMA 4X polycarbonate enclosure with latch locks keeping your radio equipment safe and secure over time in extreme outdoor weather conditions
- ◇ Industrial grade power system for outdoor environments
- ◇ Long lasting, Sealed Lead Acid Batteries for UPS systems ensuring your data is available when you need it
- ◇ Includes 48VDC for backhaul radios such as Cambium PTP 300, 400 or 500 series
- ◇ Integrated PCS/Cellular antenna with lightning protection
- ◇ Includes all wiring, cabling and terminal blocks for fast network deployments
- ◇ Enclosure flange for pole mounting using versatile stainless steel bands
- ◇ Can be configured with additional components upon request

FreeWave Compatible Radios

- ◇ FGR
- ◇ GX
- ◇ LRS

24VDC System

- ◇ 120W, 5A Power supply converting AC Mains to 24VDC w/ AC surge protection
- ◇ 48VDC, 55W Power System rated to accommodate Cambium PTP backhauling
- ◇ Grey 18" x 16" x 12" polycarbonate enclosure with aluminum backplate
- ◇ One PCS/Cellular antenna and attached RF cable assemblies
- ◇ Available DIN rail space for mounting other equipment is 16.75"H x 5.75"W
- ◇ Two pairs of additional terminal blocks included
- ◇ *Enclosure pole mount kit and mounting pole sold separately*



Part No: VA09-Fwave

24VDC System w/ UPS

- ◇ White 18" x 16" x 12" aluminum enclosure with aluminum backplate
- ◇ One PCS/Cellular antennas and attached RF cable assemblies
- ◇ 120W, 5A power supply converting AC Mains to 24VDC w/ AC surge protection
- ◇ 48VDC, 55W Power System rated to accommodate backhaul radios
- ◇ UPS including Charger and Two 17 AHR batteries
 - Estimated Battery Back Up Time:
 - ◇ Radio Only (No Backhaul) – 20 Hours
 - ◇ Radio w/ Backhaul (Cambium PTP 300/400/500/600) – 5 Hours
- ◇ Available DIN rail space for mounting other equipment is 10.75"H x 2"W
- ◇ *Enclosure pole mount kit and mounting pole sold separately*



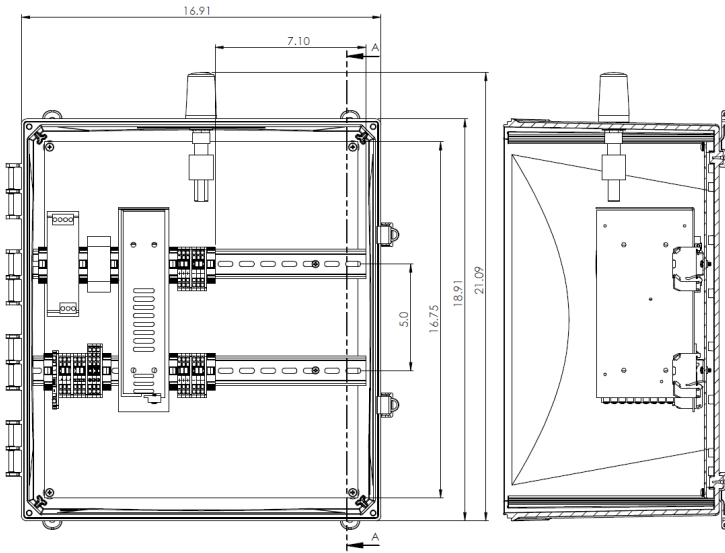
Part No: VL03-FwaveUPS

For project support contact a TerraWave Regional Sales Executive.

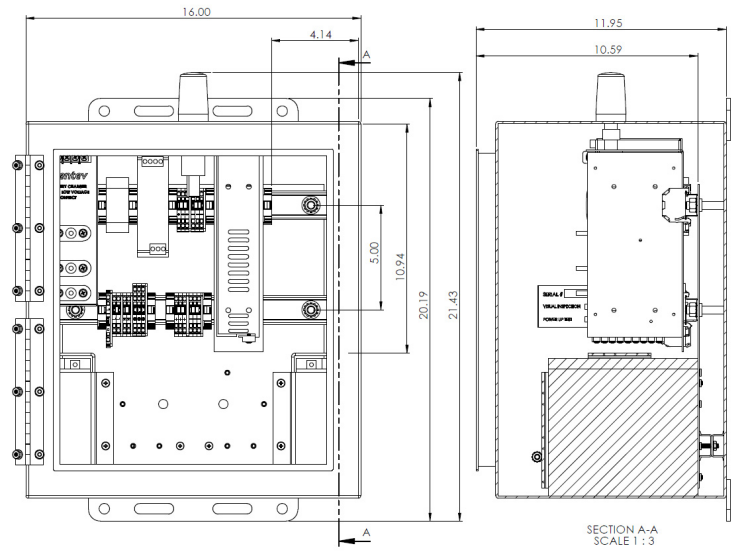
800.851.4965 | www.terrawave.com | sales@terra-wave.com



Engineered for performance.



Powered Enclosure
*Radios sold separately



Powered Enclosure w/UPS
*Radios sold separately

	Powered Enclosure	Powered Enclosure w/ UPS
Enclosure Material	Polycarbonate (NEMA 4X)	Aluminum (NEMA 4X)
AC Input Power	88 to 264VAC , 124 to 370VDC	
DC Output Power (for customer I/O equipment)	120W @ 24V DC	
DC Voltage	24V FreeWave / 48V Backhaul Radio	
Rated Current	5A @ 24VDC ; 1.15A @ 48VDC	
Battery Backup Time	N/A	20 Hrs ^{*1}
Charger Output Current	N/A	5A
Low Voltage Disconnect (LVD)	N/A	Disconnect 10.5 VDC Reconnect 12.5 VDC
Transfer Time	N/A	-0.1 μ sec ^{*2}
Protections	AC Surge and Lightning Arrestor	
UL Safety	Power Supply & AC Surge	
Terminal Block Assy's	2 Extra DC 1 Extra AC	
Broadband Antenna	3 dBi gain from 821-896 MHz, 1850-1990 MHz	
External Dims (inches)	18" x 16" x 12"	
Customer Equipment Space	See 2D mechanical drawing	

^{*1}Backup capacity calculations are based upon the typical warranty battery temperature at 25° C and MDS radio only

^{*2}Two stage charger: Stage 1 constant current, Stage 2 constant voltage

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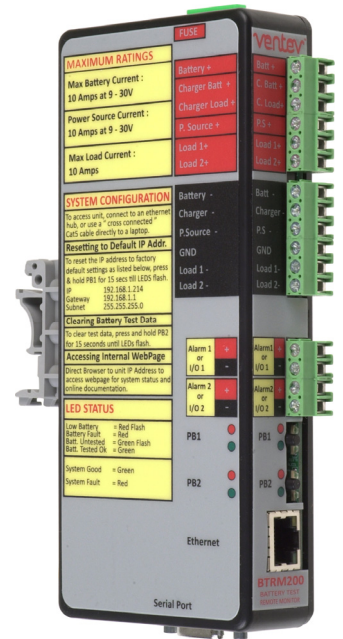
Optimize Your FreeWave Radio System with Ventev's BTRM

Ventev's Battery Test Remote Monitor

Are your remote-site UPS batteries healthy? Many remote sites that have wired or wireless equipment for relaying critical data are designed with battery backup systems. However, batteries have an operational lifespan that can be reduced by environmental factors. Ventev's Battery Test Remote Monitor (BTRM) performs automatic battery load tests and sends exception reports via SNMP, text or email using Ethernet or DNP3 communication protocols.

The BTRM provides

- ◇ Reliable testing using the system's own load to evaluate battery health in real-time
- ◇ Cost savings ensuring you only replace batteries which are near end-of-life but before they fail
- ◇ Support for the latest in Ethernet communications including SNMP and DNP3
- ◇ Consolidating your truck rolls enabling battery replacement when a crew will already be in the area
- ◇ Peace of mind that if widespread power fails, all systems will operate for the designed amount of back-up time
- ◇ A two-channel RTU using dry contacts that can be configured for additional I/O



Ventev Part No: BTRM-200
TESSCO SKU: 578626

Ventev Engineering, Support & Development

Ventev designs and manufactures standard power systems for outdoor applications. Combined with the broad portfolio of components offered by TESSCO Technologies, we ensure reliable network performance and efficient deployments. Whether you wish to install components into the Ventev Power Systems yourself or purchase a fully integrated system, our engineers can design a solution that meets any technical requirements.

For project support, assistance configuring your system or any other questions, contact a TerraWave Regional Sales Executive at 800.851.496 or email sales@terrawave.com

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