

24 V DC Integrated UPS Power System

with Lithium Battery

ventev®

Connect, Protect, and Enable™

Ventev's 120 V AC/24 V DC UPS Power System for IoT applications ensures reliable power for 24 V DC Cellular and SCADA radios. The compact, lightweight NEMA 3R enclosure system converts 120 V AC site power to 24 V DC to power active equipment. The system includes two 7Ahr LiFePO4 lithium batteries. Easily configurable in the field, the system is delivered fully integrated to meet your specific deployment requirements and can be mounted on poles or walls.

With the lithium-ion battery, the system provides up to 4 hours of backup power depending on the system load in the event of a power outage. Battery longevity is 10 years or 2000 cycles.

Available Models

Description	MFG Part #	SKU
System in Polycarbonate Enclosure	VN-124B1-L7-0-1	607936
System in Stainless Steel Enclosure	VN-124B4-L7-0-1	607963

Enclosure Interior



SKU 607936

Features & Benefits

- Converts AC power to DC power.
- Rugged NEMA-rated enclosure protects in harsh weather.
- The thermostat-controlled fan and vent keep the system cool during the most extreme conditions.
- Locks to secure equipment from tampering and theft.
- Pole or wall mountable.
- **Configured and delivered fully integrated** for fast, trouble-free installation.
- **Cost-effective solution** for ensuring reliable power for uninterrupted connectivity.
- The lithium-ion battery doubles the life of the system over similar lead-acid batteries.

Applications

- **Smart Grid:** powers collector point systems for LTE backhaul radios with enclosure I/O ports for antenna cables.
- **Smart Farming:** provides 24V DC to power Gateway radio systems with accommodations for external LTE antennas.
- **SCADA Networks:** Protects remote equipment and provides 24V DC power to SCADA radio with UPS and integrated antennas.



All product specifications are subject to change without notice or obligation.

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Specifications

Exterior Dimensions	18 x 16 x 10 in.
Weight	20 lbs. with batteries
Environment	Indoor/Outdoor
Application	Smart Grid, Smart Farming, SCADA
Locks	Pad Lockable Latches
Door	Opaque
Vents	75 CFM 48 VDC fan
Number of Ports	1x AC-input, 1x RJ45 I/O
NEMA Rating	3R
Material	Polycarbonate or Steel
Mounting Options	Wall or Mast
Input Power	90-264 VAC 60 Hz, 3 Amp.
Output Power	120 W at 24 V DC
Terminal Blocks	AC with knife switch, DC for 24 V, battery knife switch, and ground
Battery Backup	2-stage charger with lithium ion rechargeable battery pack with BMS. Auto switchover to stand-by battery when AC fails.
System Protections	Low voltage disconnect (cutoff voltage 10.5, reconnect voltage 12.5), overload, over voltage (auto-recovery), and over temperature (auto-recovery after temp goes down).
Temperature Range	-22°F to 113°F (including batteries)

Notes

- For AC input requirements greater than 270 VAC, call Ventev.
- For extended battery backup time, call Ventev.
- Site AC power cord not included.

Additional Accessories

Universal Pole Mount Kit for 12 in. Diameter Poles

MFG Part #: TWPMK-16-UNIV
SKU #: 339837

1 in. Diameter RJ45 Compatible Cable Glands

MFG Part #: 10F362226
SKU #: 576422

1 in. Diameter Hole Plugs

MFG Part #: 1/2-NEMA-PLUG
SKU #: 344873

Configure with Optional Components

- Cell modems, LPWAN, SCADA, & Wi-Fi radios
- Network switches
- Industrial POE injectors
- Battery and test remote monitors
- Surface mount antennas for LTE, GPS, & Wi-Fi
- Batteries for UPS capability



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