POWERTRONIX
Uninterruptible Power Supply

powertronix.it

AURIGA MV⁹

The **Auriga MV⁹** product family is **Powertronix's smallest modular UPS**, designed for medium to small loads with future growth in mind. Its **compact cabinet** and **Pluggable power modules** make it **ideal** for infrastructures starting **small but planning to grow big!**

POWERTRONIX's QUALITY CERTIFIED!

The AURIGA MV⁹ by POWERTRONIX delivers **premium VFI online double conversion**, ensuring power quality ,scalability ,redundancy and power backup for IT corporates, medical, banking, and industrial applications with small to medium power demands.

Thanks to **multi-level IGBT design**, **AURIGA MV⁹** offers the highest reliability and efficiency with a **unity power factor besides** a multilingual LCD display, external interface ports, integrated input mains, internal manual bypass and output switch.

TYPICAL APPLICATION:

- Enterprises
- Medical
- Data Centers,Servers
- IT network;
- Transportation

VFI-SS-111	3-3 - PF 1	60kVA(3x20KVA) 90kVA(3x30KVA)

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UPS CABINET PART NUMBER	AMVER15U060K20	AMVER15U090K30
UPS CABINET NOMINAL RATING	60kVA	90 kVA
UPS CABINET ACTIVE POWER	60kW	90kW
UPS POWER MODULE	AMVEPM20	AMVEPM30
UPS MAX SLOT	3 x AMVEPM20	3 x AMVEPM30

Input:

INPUT NOMINAL VOLTAGE	3 x 380 / 400 / 415 VAC (3Ph+N)
INPUT VOLTAGE TOLERANCE	350 ~ 478 VAC at 100% load; 208 ~ 478 VAC at < 70% load
INPUT NOMINAL FREQUENCY	50 / 60 Hz (Auto sensing)
INPUT FREQUENCY TOLERANCE	40 ÷ 70 Hz
INPUT POWER FACTOR	>0.99 @ 100% load, >0.98 at 50% load
INPUT THDI	<3% @ 100% load

Output:

OUTPUT NOMINAL VOLTAGE	3 x 380 / 400 / 415 VAC (3Ph+N)
OUTPUT POWER FACTOR	1
OUTPUT THDV(s)	≤1.5% THD (Linear Load); ≤ 4% THD (Non-linear Load)
OUTPUT V-VARIATION	≤ ±2% Typical (unbalanced) / ≤ ±1% Typical (balanced)
OVERLOAD	1 hour for 110%, 10 mins for 125%, 1 min for 150% and 200ms for > 150%
OUTPUT NOMINAL FREQUENCY	50/60Hz ±0.1% stability

Bypass:

BYPASS V&F	3 x 380 / 400 / 415 VAC (3Ph+N)	
BYPASS VOLTAGE TOLERANCE	+20%/-30% , Factory setting ±15%	
BYPASS OVERLOAD	1 hour for 110%, 10 mins for 125%, 1 min for 150% and 200ms for > 150%	
BYPASS MAX CURRENT	118A@380V	171@380V

Battery:

BATTERY CONFIGURATION	32-36-40 Blocks
EXTERNAL/BOTTOM BATTERY CABINET	available as option (AMVER15U120X9AH), suitable for up to 120Blocks 7Ah or 9Ah
CHARGING VOLTAGE	Floating charge: 2,3V/cell or Boost Charge 2,5V/Cell
CHARGING CURRENT	Normally set for 0,1 C Each AVMPE20 up to 6A / Each AVMPE30 up to 8A
BATTERY MANAGEMENT	Battery Test (auto / periodic / User selectable)

- A **LCD DISPLAY**
- B **LED UPS STATUS**
- C **SMART SLOT- RS port**
- D **STS / BYPASS MODULE**
- E **POWER MODULE**
- F **OPTIONAL BOTTOM BATTERY CABINET**

Control Key	Description
Esc	Return to previous screen or cursor displacement. When screen is in main screen, it will enter setting menu by pressing ESC key.
Up(Left)	Key for menu page navigation or digit modification.
Down(Right)	Key for menu page navigation or digit modification.
Enter	Confirmation of commands, or cursor displacement.
Home	Return to Main screen.
Power On/Off	Turn on UPS or Turn off UPS.

012001—ISO9001AUMV9-6090

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Environment

PART NUMBER UPS CABINET	AMVER15U060K20	AMVER15U060K30
UPS FRAME (WxDxH mm) **DIMENSIONS & WEIGHT**	1000 x 515 x 760 182 Kg (empty) /285Kg (w/3xPM)	1000 x 515 x 760 185 Kg (empty) /290Kg (w/3xPM)
BATTERY CABINET (WxDxH mm) **DIMENSION & WEIGHT**	1000 x 514 x 610 90 Kg (empty) /390Kg (w/120x9Ah))	
DIMENSION & WEIGHT POWER MODULE (WxDxH mm)	650 x 440 x 132 (3 RU) 34Kg for 20 Kw Power module	650 x 440 x 132 (3 RU) 35Kg for 30 Kw Power module
NOISE	<68 dB @full load	
ALTITUDE	≤1000, derate power by 1% per 100m between 1000m and 2000m Asl	
DEVICE TYPE PROTECTION CLASS	CLASS 3 – IP 20 (Standard) Other IP rating on request	
EXTERNAL INTERFACES	Optional: Snmp, Dry contacts,Modbus, Environment monitoring Device Standard: RS232- Epo- Lcd display 5.7"-Vectorial Buttons- Status Led	

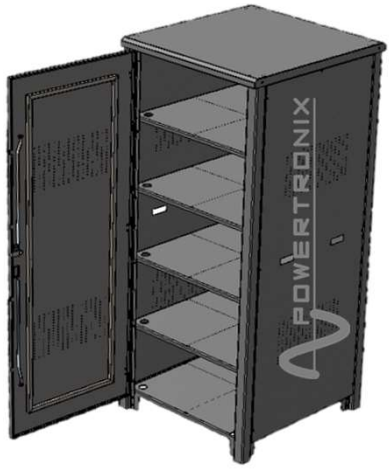
Others:

EUROPEAN DIRECTIVES	LV 2014/35/EU Low Voltage Directive EMC 2014/30/EU Electromagnetic Compatibility Directive / CE marks
STANDARDS	Safety IEC EN 62040-1;IEC EN 62040-2 EMC;RoHS Compliance; IEC EN 62040-3 (Voltage and Frequency Indipendent)VFI-SS-111

+ BATTERY CABINET

The EN32-XXX or EN40-XXX battery cabinets by Powertronix are expertly designed to accommodate up to 40 battery blocks in a highly efficient and functional structure, maximizing space optimization while ensuring ease of access and superior functionality. The aesthetics of the EN32/40 -XXX battery cabinets are delivering a **practical, solid** and **visually appealing solution.**

MODEL	DIMENSIONS	WEIGHT	CAPACITY
ENV6168140	610x680xh1400	160Kg	Up to 32x60Ah or 40x40Ah
ENV8198140	810x880xh1400	200Kg	Up to 32x120Ah or 40x80Ah
ENV8189190	810x980xh1900	280Kg	Up to 32x150Ah or 40x140Ah



Customization is a core value of Powertronix's customer-focused approach. Alternative layouts and battery cabinet configurations can be tailored to meet specific space requirements and autonomy demands, ensuring maximum flexibility in both design and size

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AURIGA MV9

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Communication Options:

+ SNMP/TCP-IP

The AURIGA MV9 series, with the **VN-SNMP** card, allows remote monitoring and management of UPS systems via your **Local Area Network (LAN).**
Using SNMP protocols, it provides the following key features:
-**Remote Monitoring and Control:** Enables setting custom thresholds to trigger alarms and remotely monitor the UPS status.
-**Event Notifications**: Sends email notifications to the team or selected personnel in case of critical power events.
-**Network-Wide Power Management**: Provides information on power events, facilitates automatic shutdowns, and monitors all UPS units connected to the network.
-**Information Accessibility:** Periodically collects and makes UPS data available to connected applications.

+ MODBUS RTU

The **VN-MODBUS** card is a communication accessory designed to enhance the **management and control** of AURIGA MV9 series . Equipped with two RS485 over Rj45 connector, this card enables remote monitoring and control of UPS units, **facilitating integration** with existing RS485/ MODBUS network infrastructures.
The card implements the **Modbus RTU protocol,** a widely used communication standard, allowing interfacing via RS485 with a PC or any **Building Management System (BMS).**
This means that the Modbus card not only provides a reliable channel for real-time monitoring of UPS parameters but also allows the collected data to be **integrated into a centralized management system**, improving operational efficiency and responsiveness.

+ DRY CONTACT

The **AS400 card** is a communication accessory that provides **potential-free contacts for remote UPS monitoring**, making it easy to interface with Programmable Logic Controllers (PLC) or signal control panels.
It delivers **critical information** such as UPS failure, alarms, main power failure, bypass activation, low battery warnings, and UPS status (on/off).
These potential-free contacts ensure **isolated signals**, preventing electrical interference between systems. The AS400 card enhances the reliability of the power management system by offering real-time alerts, allowing for quick responses to issues and ensuring the continuous operation of critical systems. This makes it a valuable tool for integrating **UPS monitoring into broader control networks**.

+ DRY+SNMP

The **S806AS400** Card enables the integration of AS400 functionality with SNMP capabilities in a single solution.

+ ENVIRONMENT MONITORING

The **VN-EMD** helps to control the ambient condition for proper battery and ups functionality

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