# POWERTRONIX
## Uninterruptible Power Supply

# AURIGA ME
# 600-800kW

The **Auriga ME** product family is **Powertronix's Flexible modular UPS**, designed for matching customer's demands who need high power, flexibility, Reliability and performances in l imited space. Its **compact cabinet** and **Hot -Pluggable power modules** make it **ideal** for mission critical applications!

### POWERTRONIX's QUALITY CERTIFIED!

The **AURIGA ME** 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 medium to high power demands.

Thanks to **multi-level IGBT design**, AURIGA ME offers the highest reliability and efficiency with a **unity power factor besides** a multilingual LCD display, external interface ports, dual input mains, internal manual bypass, and parallel operation capability.

### TYPICAL APPLICATION:
- Enterprises
- Medical
- Data Centers,
- Servers
- IT network;
- Transportation
- Precision instruments

| VFI-SS-111 | 3-3 - PF 1<br>Power module 50-60kVA | MODULAR<br>600 - 800kW |
|---|---|---|

# AURIGA ME

| UPS | CABINET PART NUMBER | AME42U-600 | AME42U-800 |
|---|---|---|---|
| UPS | CABINET NOM. RATING | 600 | 800 |
| UPS | MAX SLOT | 12 | 14 |
| UPS | POWER MODULE COMPATIBILITY | AUPME50 /AUPME60 | |
| UPS | REDUNDANCY CONFIGURATION | 12 x AUPME 50<br>10 + 2 x AUPM 60 | 14x AUPME 50<br>14 x AUPM 60 |
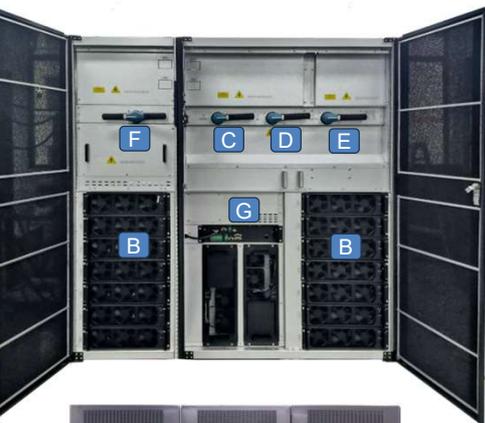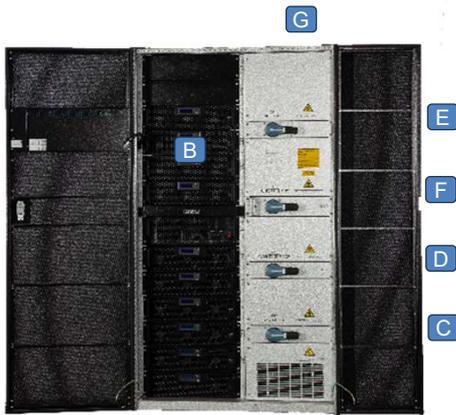
## Input:

| | |
|---|---|
| INPUT NOMINAL VOLTAGE | 3Phase+Neutral+Ground, 380/400/415VAC (line-line) |
| INPUT VOLTAGE TOLERANCE | 304~478Vac at 100% load; 228~304 Vac with power derating |
| INPUT NOMINAL FREQUENCY | 40 / 70 Hz (Auto sensing) |
| INPUT POWER FACTOR | >0.99 @ 100% load, >0.98 at 50% load |
| INPUT THDI | <3% linear load |

## Output:

| | |
|---|---|
| OUTPUT NOMINAL VOLTAGE | 380 / 400 / 415 VAC (3Ph+N) |
| OUTPUT POWER FACTOR | 1 |
| OUTPUT THDVu | <2% , Linear load, <4% , Non-linear load (IEC/EN62040-3) |
| OUTPUT V-VARIATION | ≤ ±5% Typical (unbalanced) / ≤ ±1% Typical (balanced) |
| OVERLOAD | <110% 60 mins; 110% ~125% 10 min; 125% ~150% 1 min;>150% 200ms |
| OUTPUT FREQUENCY | 50/60Hz ±0.1% stability |
| CREST FACTOR | 3:1 |

## Bypass:

| | |
|---|---|
| BYPASS VOLTAGE | 3 x 380 / 400 / 415 VAC (3Ph+N) |
| BYPASS OVERLOAD | <110% long run; >150% 200ms |
| BYPASS V-SETTING | +20%/-40% Vnom , Factory setting +15%/-20% |
| BYPASS F-SETTING | 50/60Hz / setting +0,5Hz-10Hz |

## Battery:

| | |
|---|---|
| BATTERY CONFIGURATION | 36-44 blocks with Pf1, 30-34 with Pf0.8 ( default 40 blocks) |
| BATTERY CABINET | EXTERNAL |
| BATTERY MANAGEMENT | Self Battery Test ( auto / periodic / User selectable) |
| BATTERY COMPATIBILITY | VRLA, Lithium, Nicd |

## System:

| | |
|---|---|
| EFFICIENCY | 96,5%@ double conversion mode |
| HMI INTERFACE | 10,4"LCD touch screen + LED |
| WIRING | Bottom in or top in cabling available ( top only for AME42-800) |
| ENCLOSURE | IP20 |
| WORKING CONDITION | 0 ~ 40°C; 0 ~ 95% rH non condensing<br>No derating up to 1000slm, 1% derating every 100Mt above |
| NOISE | <70dB@ 1 Meter |

## 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 |

**A** INTERACTIVE DISPLAY
**B** POWER MODULES
**C** UPS OUTPUT SWITHC
**D** UPS BYPASS SWITHC
**E** UPS INPUT SWITCH
**F** UPS MAINTENANCE SWITCH
**G** UPS SMART SLOT

# AURIGA ME

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## Weight and dimensions:

| UPS | CABINET PART NUMBER | AME42U-600 | AME42U-800 |
|---|---|---|---|
| UPS | CABINET DIMENSION | 1000*1100*2000 | 1800*850*2000 |
| UPS | CABINET WEIGHT(kg) | 390 | 650 |
| UPS | P.MODULE | 440*720*130 (3RU) | |
| UPS | P.MODULE (kg) | 35KG x AUPME40/50- 40Kg x AUPME60 | |

The system features advanced 3-level technology, achieving up to 97% efficiency in double conversion mode, along with intelligent charging management to extend battery life, a smart sleep function to optimize load efficiency, and versatile communication interfaces, including RS232, RS485, USB, SNMP, AS400, and programmable dry contacts.

*50kW Power Module*

## + VRLA BATTERY SOLUTIONS

AURIGA ME may be set to work with different battery string ( nr of blocks x strings) and can be compatible from 30 to 44 blocks. The ENV battery cabinet are suitable for most of the applications and are designed to accommodate up to 60 battery blocks in a highly efficient and functional structure, maximizing space optimization while ensuring ease of maintenance onto the battery. ENV cabinets are delivering a **practical, solid** and **visually appealing solution.**

## + LITHIUM BATTERY SOLUTIONS

The **LiFePO4 lithium battery system**, designed for Auriga ME, is engineered for use in **UPS systems and energy storage applications**. This **high-voltage** system provides **reliability** and **high performance**, with advanced monitoring of cell voltage and temperature. Communication between modules is facilitated via an isolated CAN interface, **enabling the integration of multiple modules for large-scale systems**. The passive balancing system ensures even charge distribution across the cells, optimizing the battery's lifespan. Each lithium battery cabinet is equipped with its own **Battery Management System (BMS),** which includes breakers and electrical protection. Additionally, the cabinet features an **internal fire protection system,** which is triggered in case of high temperature or smoke detection, significantly enhancing the safety of the UPS system installed on your premises.

Details : Lithium power module and cabinet battery manager

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

# Communication Options:

## ↗ + SNMP/TCP-IP

The AURIGA ME series, with the **AME-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 **AME-MODBUS** card is a communication accessory designed to enhance the **management and control** of AURIGA ME 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 **AME-AS400** is a communication accessory that provides additional **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 AUMI-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**.







# POWERTRONIX
# Secure Power
# Innovation That Saves