

# AURIGA 60÷100

**AURIGA UPS** combines decades of reliability, innovation, and strength. Designed to lead the future market, this **5th generation UPS** offers top efficiency, **Solar Energy Integration**, and the **EnerClever** functionality. Built for durability, **AURIGA** ensures **continuous performance in demanding environments**

**100% made in Italy**



The **AURIGA** series by Powertronix, with over 10 years of market presence, exemplifies **outstanding performance and reliability**, reflecting the company's vision for **emergency power supply solutions**. These products are specifically crafted for **demanding, mission-critical environments**, consistently proving their efficiency and stability. The **AURIGA family** has continually met the needs of critical sectors, **delivering durable and reliable performance**. Powertronix's commitment to innovation and quality shines through in this product line, earning it the **long-term trust of its customers**.

#### **TYPICAL APPLICATION:**

- Offices & IT;
- Telecommunications;
- Servers/ Datacenter;
- Medical/ Hospitals;
- Broadcasting;
- Access & Presence

#### **SPECIAL APPLICATION:**

- Hybrid UPS
- Energy Manager
- EN 50171

VFI-SS-111

3-1\* / 3-3  
\* Only for Auriga 60

60kVA-100kVA

# AURIGA

UPS MODEL	AURIGA60	AURIGA80	AURIGA100
UPS NOMINAL RATING	60 kVA	80 kVA	100 kVA
UPS ACTIVE POWER	54 kW	72 kW	90 kW
UPS PART NUMBER	AU060-000	AU080-000	AU100-000



- A FRONT ACCESS DOOR\***
- B FRONT LCD PANEL\***
- C EPO BUTTON\***
- 1 CABLE ENTRY**
- 2 BATTERY CONNECTION**
- 3 INPUT SWITCH**
- 4 INPUT RESERVE SWITCH**
- 5 MANUAL BYPASS**
- 6 OUTPUT SWITCH**
- 7 MAINTENANCE AND CONTROL ACCESS PANEL**
- 8 RS-232/ RS485\*\***
- 9 SMART SLOT\*\***

\* Accessible from the front  
\*\* Accessible from the Back

## General:

UPS TOPOLOGY	VFI On-Line double conversion, with pure sine-wave output
CONVERTER/INVERTER	PFC and INVERTER based on IGBT, high frequency, TRAFOLESS
STATIC SWITCH	Electronic + Contactors
COOLING SYSTEM	Air Cooled with sturdy centrifugal fans

## Input:

INPUT NOMINAL VOLTAGE	3P+N 380/400/415VAC
INPUT VOLTAGE TOLERANCE	304÷498VAC 100% load - Factory setting $\pm 20\%$ nominal voltage
INPUT NOMINAL FREQUENCY	50/60Hz
INPUT FREQUENCY TOLERANCE	40 ÷ 70 Hz
INPUT POWER FACTOR	0.99
MAX ABSORBED CURRENT	3PH+N @ 400V 97,5A 130A 162,5A
INPUT THDI	<3%

## Output:

OUTPUT NOMINAL VOLTAGE	3P+N 380/400/415VAC or (AU060) 1P+N 220/230/240VAC
OUTPUT POWER FACTOR	0.9
OUTPUT THDV	< 2% with linear load & < 4% with non linear load
OVERLOAD	125% for 10 minutes - 150% for 10 seconds
OUTPUT NOMINAL FREQUENCY	50/60Hz $\pm 0.1\%$ stability
SOFT START	Available , 30 Seconds (factory selectable)

## Bypass:

BYPASS NOMINAL V&F*	3P+N 380/400/415VAC or (AU060) 1P+N 220/230/240VAC* - 50/60Hz
BYPASS VOLTAGE TOLERANCE	$\pm 20\%$ - Factory setting $\pm 10\%$
BYPASS ACCEPTED OVERLOAD	150% 30 min - 1000% 100ms
MANUAL BYPASS	Available, with mechanical security

## Battery:

BATTERY CONFIGURATION	720VDC x string / EXTERNAL ONLY
BATTERY CHARGING I&V*	Factory setting 0.1C / 13,5VDC/block up to: 20A 30A 40A
BATTERY COMPATIBILITY	VRLA-AGM / VRLA-GEL / NiCd / Lithium / Others
BATTERY MANAGEMENT	Auto Test/ Equalization / Smart-battery management/ Optional: temperature compensation w/ external sensor

## Environment:

DIMENSION	410x830x1500(h)mm - metal case - IP20 - complete with castors
WEIGHT (W/O Battery)	240Kg 270Kg 290Kg
TEMPERATURE & RH%	0÷40°C – RH% up to 95% non-condensing - 1.000m asl 1% derating every +100Mt up to 2000 asl
EXT INTERFACE	Standard: RS-232/RS485 + dry contacts +LED Status Display Optional: MODBUS / SNMP via external card; LCD Touch Display ; Remote panel

## 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 Independent) VFI-SS-111

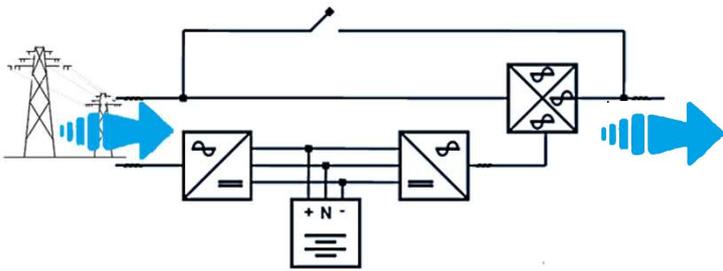
# AURIGA

## Working Mode:

### + UPS

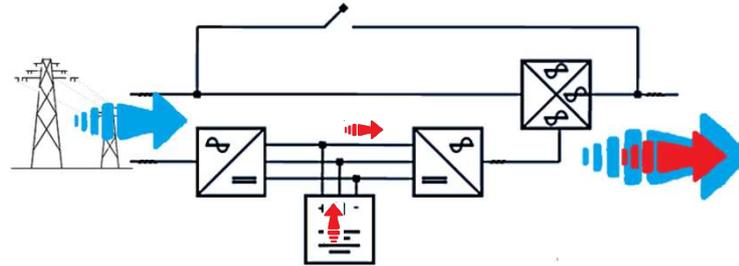
AURIGA operates as a standard UPS in Online Double Conversion or ECO mode. In **Online Double Conversion**, the UPS constantly converts AC to DC and back to AC, providing your load with **clean, stable power, free from spikes and fluctuations**—ideal for critical applications.

In **ECO mode**, the UPS powers the load directly from the mains when input power is stable, switching to battery only if an issue is detected.



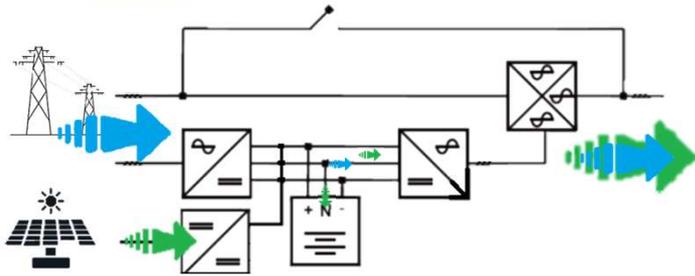
### + PEAK SHAVING

In addition to the standard mode, the AURIGA will use the batteries as an “**energy boost**”, meeting the **instantaneous energy demand** by drawing it from the battery instead of from the grid. This also allows the system to **output more energy than is being drawn from the grid**, thanks to the intrinsic intelligence in the control logic, special design considerations, and advanced firmware functionalities.



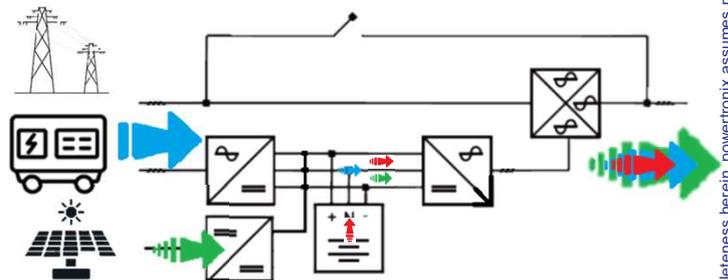
### + HYBRID UPS

In addition to the standard mode, the AURIGA can be **directly connected to PV panels** via Powertronix's SBC to **maximize energy efficiency**. Solar energy **will integrate with and reduce the grid power demand** based on the availability of PV energy. If properly sized, the system can potentially eliminate grid power consumption altogether, ensuring **maximum power supply efficiency and load protection**. Extra PV energy may also be used to charge the batteries.



### + ENERCLEVER UPS -AU

**Energclever** functionality for AURIGA. The system will act as a “**SYSTEM ENERGY MANAGER**,” always giving the opportunity to switch seamlessly and use, among the available sources, the **most convenient energy**, while maintaining solid **continuity, stability and quality power provision** demands. It is also possible to combine EC UPS with Powertronix's specifically designed **Li-Ion based battery energy storage (BESS)**



# POWERTRONIX

## Secure Power

# Innovation That Saves

# AURIGA

## + BATTERY CABINET

The EN60-XXX battery cabinets by Powertronix are expertly designed to accommodate 60 battery blocks in a highly efficient and functional structure, maximizing space optimization while ensuring ease of access and superior functionality. The aesthetics of the EN60-XXX battery cabinets are delivering a **practical, solid and visually appealing solution**.

MODEL	DIMENSIONS	WEIGHT	CAPACITY
ENV8188140	810x880xh1400	200Kg	Up to 60x40Ah
ENV8198190	810x980xh1900	280Kg	Up to 60x100Ah
ENV12098190	1210x980xh1900	380Kg	Up to 60x120Ah

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



## + SNMP/TCP-IP

The AURIGA series offers the possibility to integrate the UPS into your **Local Area Network**, enabling remote monitoring and control of the UPS status. The **OX-MGTBX506/4 SNMP** card provides full control over thresholds, allowing **alarms to be triggered and notifications to be sent via email** to the entire team or selected personnel.

The freeware ViewPowerPro gives customers free access to a simple yet comprehensive monitoring tool



## + RELAY CARD

The AURIGA series **comes standard with CS0191** cards. Powertronix's exclusive CS0191 card design **ensures full integration** of the AURIGA series into your **Building Management System (BMS)** via RS232-RS485 protocols.

**It supports five simultaneous active connections:**

- Potential-free contacts (NO/NC)
- RS232 port with DB9 connector
- RS485 Modbus RTU
- rEPO (Remote Emergency Power Off)
- External Bypass AUX contact



## + HMI

The Auriga series can be equipped as optional with a modern, functional, and user-friendly **5" LCD touch screen display (OSDE1342)**. Additionally, with the **OSDE0124 remote panel**, control and monitoring of the UPS status can be **extended up to 100 meters**.



## + AURIGA ADDITIONAL OPTIONS

**OSDE1110** Auriga 60-80-100 parallel kit ( up to 8 units)

**OSDE1233** Auriga 60 built in backfeed protection

**OSDE1234** Auriga 80 built in backfeed protection

**OSDE1235** Auriga 100 built in backfeed protection

**OSDE1342** LCD Touch-screen Display for Auriga Family

**OSDE0115** Auriga 60 2nd independent output AS+EO (emergency only)

**OSDE0116** Auriga 80 2nd independent output AS+EO (emergency only)

**OSDE0120** Auriga 100 2nd independent output AS+EO (emergency only)