

ATLAS 80÷120



Atlas UPS is known for its sturdiness, reliability and effectiveness when its matter of power backup solution! Ideal for protecting critical loads, its **advanced SCR-IGBT** technology ensures high power conversion efficiency and offers maximum **input resilience against spikes, fluctuations, and disturbances coming from the grid**, making it perfect for critical environments!
100% made in Italy

The **ATLAS** series by Powertronix, with over **15 years of market presence**, represents a **well-established and highly appreciated solution by customers worldwide**. Its **SCR bridge input**, known for its resilience to grid disturbances, is balanced by a refined and reliable **IGBT inverter output**. This arrangement ensures top-tier reliability and performance.

Additionally, ATLAS can be equipped with filters or technical input arrangements to limit input harmonics, making it suitable and valued in the most critical work environments.

TYPICAL APPLICATION:

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

SPECIAL APPLICATION:

- EN 50171
- Critical electrical environments

VFI-SS-111

3-3

80kVA-120kVA

UPS MODEL	ATLAS 80	ATLAS 100	ATLAS 120
UPS NOMINAL RATING	80 kVA	100 kVA	120 kVA
UPS ACTIVE POWER	72 kW	90 kW	108 kW
UPS PART NUMBER	AT 080-000	AT 100-000	AT 120-000

FRONT VIEW



- 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	SCR based PFC ,IGBT-based INV, high frequency, TRAFOLESS
STATIC SWITCH	Electronic + Contactors
COOLING SYSTEM	Air Cooled with sturdy redundant centrifugal fans

Input:

INPUT NOMINAL VOLTAGE	3P+N 380/400/415VAC
INPUT VOLTAGE TOLERANCE	340÷460VAC 100% load - Factory setting ±10% nominal voltage
INPUT NOMINAL FREQUENCY	50/60Hz
INPUT FREQUENCY TOLERANCE	40 ÷ 70 Hz
INPUT POWER FACTOR	0.99
MAX ABSORBED CURRENT	3PH+N @ 400V 130A 158A 186A
INPUT THDI	For AT xxx-000 < 20% // w/+D option <10% //w/+DF option <5%

Output:

OUTPUT NOMINAL VOLTAGE	3P+N 380/400/415VAC
OUTPUT POWER FACTOR	0.9
OUTPUT THDV	< 3% with linear load & < 6% with non linear load
OVERLOAD	125% for 10 minutes - 150% for 10 seconds
OUTPUT NOMINAL FREQUENCY	50/60Hz ±0.1% stability
SOFT START	Available , 30 Seconds (factory selectable)

Bypass:

BYPASS NOMINAL V&F*	3P+N 380/400/415VAC 50/60Hz
BYPASS VOLTAGE TOLERANCE	±20% - Factory setting ±10%
BYPASS ACCEPTED OVERLOAD	150% 30 min - 1000% 100ms
MANUAL BYPASS	Available, with mechanical security

Battery:

BATTERY CONFIGURATION	384VDC x AT80/AT100 / 480VDC x AT120 - EXTERNAL ONLY
BATTERY CHARGING I&V*	Factory setting 0.1C / 13,5VDC/block charging current selectable 8,5-13,5-20-25A
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	700x740x1800(h)mm - metal case - IP20 - complete with castors		
WEIGHT (W/O Battery)	STD version	340Kg	385Kg 415Kg
	+D version	485Kg	530Kg 615Kg
	+DF version	560Kg	575 Kg 655Kg
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; Remote panel		

Others:

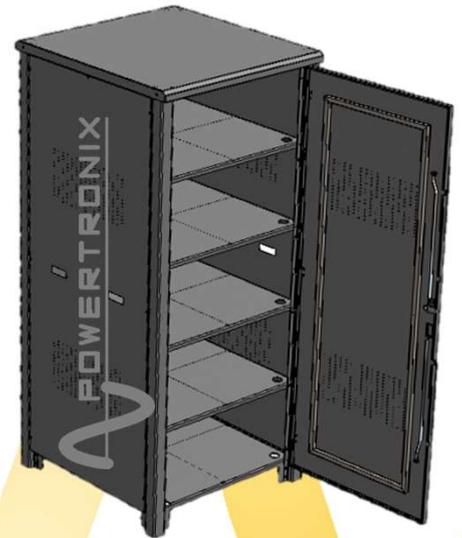
EUROPEAN DIRECTIVES	LV 2014/35/EU Low Voltage Directive EMC 2014/30/EU Electromagnetic Compatibility Directive / CE marks
STANDARDS	Safety IEC EN 62040-1; IEC EN 62040-2 EMC; RoHS Compliance; IEC EN 62040-3 (Voltage and Frequency Independent) VFI-SS-111

ATLAS

+ 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 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 ATLAS 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 ATLAS 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 com-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



+ ATLAS ADDITIONAL OPTIONS

- OSDE1120** Atlas 80-100-120 parallel kit (up to 8 units)
- OSDE1182** Atlas 80 built in backfeed protection

- OSDE1183** Atlas 100 built in backfeed protection
- OSDE1184** Atlas 120 built in backfeed protection

POWERTRONIX
Secure Power
Innovation That Saves