

PURE RELIABILITY



POWERTRONIX **AURIGA HP UPS** is complete and cost effective power protection solution delivering premium VFI online double conversion for IT and electrical infrastructures in corporate, medical, banking and industrial applications.

100% MADE IN ITALY, **AURIGA HP UPS** adopt PFC IGBT-based topology resulting in the highest levels of efficiency (0.99 input power factor - THDi <2%) and reliability for all mission critical loads for all three-phase installations.

Featuring multilanguage LCD display, RS232 port, BMS communication interface (DRY CONTACT & MODBUS RTU PROTOCOL BOARD), intelligent slot for SNMP adapter, **AURIGA HP UPS** is real time energy sentinel able to alert you in any situation.

Combining proven performance with technical innovation to deliver pure quality to any mission critical load, **AURIGA HP UPS** is your best choice.



MAIN TECHNICAL DATA	AURIGA HP 120	AURIGA HP 160	AURIGA HP 200
UPS Topology	VFI On-Line Double Conversion (Sine-wave form output)		
Converter	Power factor correc, on PFC IGBT-based		
Inverter	High frequency IGBT inverter transformerless		
Sta, c switch	Electronic sta, c switch plus contactor		
Cooling	Forced air & liquid closed circuit		
Input nominal voltage	3Ph+N 380/400/415V		
Input voltage tolerance 100% load	±20%		
Input nominal frequency	50 or 60 Hz		
Input frequency tolerance	40 ÷ 70 Hz		
Power factor	0.99		
So5 start	0 ÷ 100% in 30 sec		
Backfeed protec, on	available		
Input current distort, on	THDi ≤2%		
Bypass nominal voltage	3Ph+N 380/400/415V		
Bypass voltage tolerance	±20%		
Bypass factory sen g	±10%		
Bypass nominal frequency	50 or 60 Hz		
Bypass accepted overload	10In per 100ms		
Manual bypass	with mechanical lock		
Output ac, ve power	108kW	144kW	180kW
Nominal output voltage	3Ph 380/400/415V		
Nominal output current 3ph 3Ph+N@400V	173A	230A	288A
Output power factor	0.9		
Output voltage sta, c varia, on	± 1%		
Output voltage dynamic varia, on	± 5%		
Crest factor	3:1		
Output voltage distort, on linear load	≤ 2%		
Output voltage distort, on non linear load	≤ 5%		
Output frequency	50Hz or 60Hz		
Output frequency stability	0.01%		
UPS system efficiency	≥ 96%		
Overload	125% for 10 minutes 150% for 60 seconds		

MAIN TECHNICAL DATA	AURIGA 120	AURIGA 160	AURIGA 200
Battery type	VRLA AGM or GEL		
Number of elements	360		
Battery nominal voltage	720 Vdc		
Battery voltage range	600 ÷ 830 Vdc		
Battery maximum charging current	25A		
Battery charging profile	DIN 41733 Charging voltage: 810Vdc Temperature compensated battery charging profile		
Battery low threshold (factory setting)	640 Vdc		
Battery management & test	Supervised battery management & selectable regular test		
Remote signals	Dry contact board - remote EPO		
Standard interfaces and protocol	RS232 port & MODBUS RTU + slot for communication, operation, monitoring		
Monitoring software	UPSMAN & UPSMON		
Communication, operation, monitoring	web adapter SNMP		
Parallel capability (optional)	up to 8 units (closed loop via optional, optical fiber)		
MECHANICAL DATA			
Case protection, rating	metal case - RAL 7016 - IP20 (upgrade IP31 on request)		
Dimensions (WxDxH mm)	800 x 830 x 1800 mm		
Weight kg (UPS no battery)	480kg	540kg	590kg
Noise level at 1m	≤ 64dB		
Storing temperature	-20°C ÷ +70°C (UPS) +20°C ÷ +30°C (Battery)		
Operating temperature	+0°C ÷ +40°C		
Relative humidity	95% non condensing		
Altitude	1000m above MSL without derating (1% derating any 100m up to 2.000m)		
Ventilation	multi level fan		
UPS moving	castors		
UPS packaging	overseas shipment suitable carton box on fumigated wooden pallet		
UPS packaging dimensions (WxDxH mm)	1000x1000x2100 mm * 70 kg		
STANDARDS			
European Directive: LC 2014/35/EU low voltage Directive, EMC 2014/30/EU electromagnetic compatibility Directive, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions.			
Standards: Safety IEC EN 62040-1:2008+A1:2013; EMC IEC EN 62040-2 C2			
Classification in accordance with IEC 62040-3 VFI - SS - 111 IEC EN 50171 Directive*			

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Main electrical features

- * Dual input mains: separated or common
- * Genset compatibility without any additional equipment
- * Integrated maintenance bypass
- * Detection circuit for backfeed protection (additional backfeed device UPS built in or in external panel)
- * Distributed or shared battery for optimized energy storage and uninterrupted power during strings maintenance
- * Battery temperature sensor and supervised battery management dual charging method profile
- * UPS *eco-mode* functional profile for 99% efficiency
- * Frequency converter profile with or without backup time 60Hz to 50Hz or viceversa

Main electrical optional features

- * Parallel capability for redundant or add capacity system configuration (up to 8 units)
- * Extended runtime in external cabinet matching UPS design
- * Extended runtime in external cabinet IP20 or open rack, complete of DC breaker
- * UPS external cabinet galvanic isolation transformer (full system isolation)
- * UPS I/O phase voltage and frequency configuration settable via LCD
- * UPS upgrade to double independent outputs — EN 50171 standard
- * Battery bank disconnection in case of UPS shutdown or according to BMS design
- * BACS battery advanced care system for constant monitoring and harmonization of individual charging voltages

UPS connectivity available features for immediate system status info

Real time information, real time solution!

- * User friendly Multilanguage LCD (Russian and Chinese available)
- * Event log access via LCD for on-site checking & event log download via open software
- * Dry contact interface complete of 4 change-over contact outputs
- * Serial connection interface via RS232/RS485 Modbus RTU for BMS full compatibility
- * At-a-glance user view for simultaneous monitoring of all UPS systems connected in the same network
- * Intelligent free slot for additional SNMP interface and ambient sensors (temperature, humidity, smoke etc...)
- * UPS MAN & MON software for UPS managing and monitoring
- * Remote LED panel for UPS status
- * Remote EPO
- * Remote UPS monitoring service 24/7 - 365
- * Server, PC and/or virtual machine configured shutdown
- * e.mail/SMS/pop up UPS status information