

PURE RELIABILITY



ATLAS UPS is POWERTRONIX solution delivering premium VFI online double conversion, providing power quality and backup for IT and electrical infrastructures in corporate, medical, banking and industrial applications.

100% designed and made in Italy, **ATLAS UPS** results in the highest levels of reliability and efficiency (0.99 input power factor - THDi <5% with harmonic suppression filter on 12pulse configuration - up to 94% efficiency thanks to transformerless inverter) .

Multilanguage LCD display, RS232 port, voltage dry contacts, intelligent slot for SNMP adapter, all for complete interfacing with BMS systems, while standard features like dual input mains, internal manual bypass, possibility to implement parallel capability, low noise level, flexible battery solutions (additional UPS built-in battery charger available) make **ATLAS UPS** perfect power solution for any 3phase mission critical load, combining proven performance with technical innovation to deliver pure quality.



MAIN TECHNICAL DATA	ATLAS 80	ATLAS 100	ATLAS 120
UPS Topology	VFI On-Line Double Conversion		
Converter	3phase SCR Thyristor Conversion (6 or 12pulse version)		
Inverter	High frequency IGBT inverter transformerless		
Static switch	Electronic static switch plus contactor		
Cooling	Forced air		
Input nominal voltage	3Ph+N 380/400/415V		
Input nominal frequency	50 or 60 Hz		
Input frequency tolerance	40 ÷ 70 Hz		
Maximum input current 3Ph+N@400V			
Power factor	0.99		
Soft start	0 ÷ 100% in 30 sec		
Backfeed protection	available		
Input current distortion	THDi ≤8% (12pulse vers.)		
Bypass nominal voltage	3Ph 380/400/415 V		
Bypass voltage tolerance	±20%		
Bypass factory setting	±10%		
Bypass nominal frequency	50 or 60 Hz		
Bypass accepted overload	10In per 100ms		
Manual bypass	with mechanical lock		
Output active power	64	80	96
Nominal output voltage	3Ph 380/400/415V		
Nominal output current 3ph 3Ph+N@400V	115A	144A	172A
Output power factor	0.8		
Output voltage static variation	± 1%		
Output voltage dynamic variation	± 5%		
Crest factor	3:1		
Output voltage distortion linear load	≤ 3%		
Output voltage distortion non linear load	≤ 7%		
Output frequency	50Hz or 60Hz		
Output frequency stability	0.01%		
UPS system efficiency	up to 96%		
Overload	125% for 10 minutes 150% for 60 seconds		

MAIN TECHNICAL DATA	ATLAS 80	ATLAS 100	ATLAS 120
Battery type	VRLA AGM or GEL		
Number of elements	192	192	240
Battery nominal voltage	384 Vdc	384 Vdc	480 Vdc
Battery voltage range	320 ÷ 432 Vdc	320 ÷ 432 Vdc	400 ÷ 540 Vdc
Battery maximum charging current	25A	25A	25A
Battery charging profile	DIN 41733 Charging voltage: 810Vdc		
Battery low threshold (factory setting)	350 Vdc	350 Vdc	440 Vdc
Battery management & test	via LCD		
Remote signals	Dry contact - remote EPO		
Standard interfaces and protocol	RS232 port		
Monitoring software	UPSMan & UPSMon		
Communication options	web adapter SNMP		
Parallel capability (optional)	up to 8 units		
MECHANICAL DATA			
Case protection rating	IP 20		
Dimensions (WxDxH mm)	700 x 740 x 1800		
Weight kg	350	390	430
Noise level at 1m	65 dB		
Storing temperature	-20°C ÷ +70°C (UPS) +20°C ÷ +30°C (Battery)		
Operating temperature	+20°C ÷ +40°C		
Relative humidity	95% non condensing		
Altitude	1000m above MSL without derating (1% derating any 100m up to 2.000m)		
Ventilation	multilevel fan		
UPS moving	casters		
UPS packaging	overseas shipment suitable cartoon box on fumigated wooden pallet		
UPS packaging dimensions (WxDxH mm)	1000x1000x2150 mm * 70kg		
STANDARDS	European Directives: L V 2006/95/CE low voltage Directive EMC 2004/108/CE electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2 Classification in accordance with IEC 62040-3 VFI - SS - 111		

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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
- * UPS *eco-mode* functional profile for 96% 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
- * 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
- * Battery temperature sensor and supervised battery management dual charging method profile

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 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