

# FDC-210K

**Atlas online series is designed to provide the highest level of protection for critical mission equipment against the widest spectrum of power problems and failures.**

The Forza Atlas series is a mid-size uninterruptible power supply (UPS) uniquely designed to meet the ever changing demands of data centers, networks, and call centers. Built for easy deployment, the Atlas series is a scalable and flexible solution that combines the highest level of reliability with the lowest cost of ownership in the 1.5KVA-30KVA range. The ability to configure the Atlas series in parallel adds redundancy to power infrastructures, reducing the overall risk which has led to the common practice of protecting valuable equipment. Forza FDC-210K online double conversion tower UPS is of the highest efficiency with a capacity of 10000VA/10000W for all mission critical battery backup operation in the 220V segment.

## Highlights

- 10000VA/10000W capacity
- Online UPS with double-conversion topology
- DSP technology guarantees high performance
- 220V nominal operation
- Output power factor of 1
- Wide input voltage range (110V-300VAC)
- High efficiency up to 95%
- Active input power factor correction of 0.99
- 50Hz/60Hz frequency converter mode
- Environmentally friendly ECO mode of operation
- Emergency power off function EPO
- Generator compatible
- SNMP/USB/RS-232 communication ports
- Expanded capacity up to 30KVA
- Extended runtime with optional battery banks
- 3-stage extended charging design for optimized battery performance
- Built-in maintenance bypass available
- Optional N+X parallel redundancy



MPN	FDC-210K
<b>General</b>	
Capacity	10000VA/10000W
Topology	Double conversion
<b>Input</b>	
Nominal voltage	208-240VAC
Voltage range (low line transfer)	176VAC / 140VAC / 110VAC $\pm$ 3% (based on load percentage 100%-80% / 80%-60% / 60%-0%)% -0%)
Voltage range (low line comeback)	Low line transfer voltage + 10V
Voltage range (high line transfer)	300VAC $\pm$ 3%
Voltage range (high line comeback)	High line transfer voltage - 10V
Frequency	46-54Hz @ 50Hz system / 56-64Hz @ 60Hz system
Power factor	$\geq$ 0.99 at 100% load
Total harmonic distortion (THD)	<4% @ 100% load / <6% @ 50% load
AC Plug Style	Hard wired
<b>Output</b>	
Nominal voltage	208-240VAC
AC voltage regulation (battery mode)	$\pm$ 1%
Frequency (synchronized range)	46-54Hz @ 50Hz system / 56-64Hz @ 60Hz system
Frequency (battery mode)	50Hz $\pm$ 0.1Hz or 60Hz $\pm$ 0.1Hz
Power factor	1
Efficiency (AC mode)	> 94%
Efficiency (battery mode)	> 91%
Overload	AC mode: 100%-110%: 10min / 110%-130%: 1min / >130%: 1sec Battery mode: 100%-110%: 30sec / 110%-130%: 10sec / >130%: 1sec
Transfer time (line to battery)	0ms
Transfer time (inverter to bypass)	0ms
Crest ratio	3:1 (max)
Harmonic distortion	$\leq$ 1% THD (linear load) / $\leq$ 4% THD (non-linear load)
Waveform	Pure sine wave
Total outlets	Terminal block
<b>Battery</b>	
Battery type and quantity	12V / 9Ah (20)
Recharge time	9 hours to 90% capacity
Charging current	1A $\pm$ 10% (max)
Charging voltage	273VDC $\pm$ 1%
<b>Communications</b>	
LCD display	Graphical LCD with blue backlight
Visual Indicators	Status LEDs
Audible	Battery mode: Sounds every 4 seconds Low battery: Sounds every second Overload: Sounds every 0.5 second Fault: Continuous sound
Communication ports	Included SNMP, RS-232, USB
Power management software	Included
<b>Environment</b>	
Operating temperature	32°F-104°F
Storage temperature	UPS: -5°F-140°F Battery: 32°F-95°F
Relative humidity	20-90% non-condensing
Operating altitude	<1000m Every 100m above 1000m decreases output power 1% up to 4000m
Audible noise	<58dB at 1 meter

MPN	FDC-210K
<b>Physical appearance</b>	
Dimensions	23.3x9.9x22.7in
Weight	183lb
<b>additional information</b>	
Warranty	2 years (including batteries)

