

## FDC-106K

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 new Atlas online series provides true double-conversion technology and the highest level of protection suitable for critical equipment. The Atlas models combine an optimized level of performance with rich functionality, resulting in a high performance system that is easy to maintain and operate. Designed to prevent unexpected service interruptions due to overloads, internal fault conditions or during blackouts, the Atlas ensures reliable and continuous operation through its internal battery bank and an optional external battery module. The Atlas is available in 6000VA and 10,000VA ratings, with 110V and 220V outputs.

### Highlights

- 6000VA/6000W capacity
- Online UPS with double-conversion topology
- DSP technology guarantees high performance
- Output power factor of 1
- Wide input voltage range (110V-300VAC)
- 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 18KVA
- 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
- Fire-retardant construction



Ideal for

# 6000VA

PROTECTION LEVEL 6

- + Breaker
- + Surge Protector
- + Voltage Protector
- + Voltage Regulator
- + Power Back up
- + Power isolation

MPN	FDC-106K
<b>General</b>	
Capacity	6000VA/6000W
Topology	Double conversion
<b>Input</b>	
Nominal voltage	110-300VAC
Voltage range (low line transfer)	176VAC / 140VAC / 110VAC $\pm$ 3% (based on load percentage 100%-80% / 80%-60% / 60%-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 at 50Hz system / 56-64Hz at 60Hz system
Power factor	$\geq$ 0.99 at 100% load
Total harmonic distortion (THD)	<4% at 100% load / <6% at 50% load
AC plug style	Hard wired
<b>Output</b>	
Nominal voltage	104/110/115/120VAC or 208/220/230/240VAC
AC voltage regulation (battery mode)	$\pm$ 1%
Frequency (synchronized range)	46-54Hz at 50Hz system / 56-64Hz at 60Hz system
Frequency (battery mode)	50Hz $\pm$ 0.1Hz or 60Hz $\pm$ 0.1Hz
Power factor	1
Efficiency (AC mode)	> 90%
Efficiency (battery mode)	> 88%
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	$\leq$ 2% THD (linear load) / $\leq$ 6% THD (non-linear load)
Waveform	Pure sine wave
Outlet type	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	SNMP, RS-232, USB
Power management software	ForzaTracker
<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-106K
<b>Physical appearance</b>	
Dimensions	23.3x9.9x32.5in
Weight	256lb
<b>Additional information</b>	
Warranty	2 years

