

ATLAS-HF SERIES

Power range: 1kVA~10kVA



Features

- **Advanced Control:** Advanced CPU digital control and active PFC (>0.99) for maximum reliability.
- **High Efficiency:** Output power factor 0.9 and ECO mode for energy-saving operation.
- **Wide Adaptability:** Ultra-wide input voltage and frequency range, compatible with harsh grids and generators.
- **Superior Output:** Pure sine wave with high accuracy ($\pm 1\%$) and low harmonic distortion ($\text{THDv} \leq 3\%$).
- **Zero Transfer Time:** True double-conversion online technology ensures 0ms transfer to battery.
- **Flexible Modes:** Supports Frequency Converter mode (50Hz/60Hz) and ECO energy-saving mode.
- **Smart Interface:** Adjustable output voltage and frequency via LCD display.
- **Full Protection:** Equipped with EPO (Emergency Power Off) and supports SNMP/USB/RS232 monitoring.

Technical Specifications

Model	AT-HF-1K	AT-HF-1KL	AT-HF-2K	AT-HF-2KL	AT-HF-3K	AT-HF-3KL	AT-HF-6K	AT-HF-6KL	AT-HF-10K	AT-HF-10KL
Capacity (VA/W)	1000VA / 900W		2000VA / 1800W		3000VA / 2700W		6000VA / 5400W		10000VA / 9000W	
DC Voltage	24VDC	36VDC	48VDC	72VDC	72VDC	96VDC	192VDC / 240VDC		192VDC / 240VDC	
Internal Battery (Standard)	2 × 7Ah/9Ah		4 × 7Ah/9Ah		6 × 7Ah/9Ah		16~20 × 7Ah		16~20 × 7Ah	
Max. Efficiency	≥ 90%		≥ 90%		≥ 90%		> 92%		> 92%	
Dimensions (W×D×H mm)	144×280×224		144×280×224		190×425×324	144×400×224	260×533×560	190×425×328	260×533×560	260×533×490

GENERAL SPECIFICATIONS

INPUT & OUTPUT

- **Input Voltage Range:**
1-3KVA: 90-285VAC (1P2W+G)
6-10KVA: 120-275VAC (1P2W+G)
- **Input Frequency:** 40-70Hz (Settable)
- **Input Power Factor:** ≥ 0.99
- **Output Voltage:** 200/208/220/230/240VAC (Settable)
- **Output Voltage Accuracy:** ±2% (1-3KVA); ±1% (6-10KVA)
- **Output Power Factor:** 0.9
- **Transfer Time:** 0ms (AC to Battery)
- **Waveform:** Pure Sinewave (THDv ≤4% for 1-3K; ≤3% for 6-10K linear load)
- **Crest Factor:** 3:1

BATTERY & MANAGEMENT

- **Charging Current:**
Standard Model: 1A
Long-Backup Model: 5.5A
- **Overload Capacity (Normal Mode):**
102%~110%: Alarm & switch to bypass after 30 mins (1-3K) / 1 min (6-10K)
110%~130%: Alarm & switch to bypass after 10 mins (1-3K) / 30s (6-10K)
150%: Switch to bypass after 200ms (1-3K) / 300ms (6-10K)

COMMUNICATION & ENVIRONMENT

- **Interfaces:** 1×USB, 1×RS232, 1×EPO (Intelligent Slot for SNMP/Dry Contact optional)
- **Operating Temp:** 0-40°C
- **Humidity:** 20%-95% (Non-condensing)
- **Noise:** ≤ 50dB (1-3KVA); ≤ 55dB (6-10KVA)
- **Standards:** EN/IEC 62040, EN/IEC 61000 compliant

Note: 'L' models denote Long-Backup versions requiring external battery banks.