



UPS

Uninterruptible
Power Supply



HP7310C

Series High Frequency Online UPS

Dual Input 220Vac/380Vac, 220Vac Output
10KVA/10KW; 15KVA/15KW; 20KVA/20KW

◆ UPS System Key Features

◆ Technology & Performance

- Three-level inverter technology (6–20K) for lower harmonics and higher efficiency
- Output power factor = 1.0
- Advanced DSP (Digital Signal Processor) control
- Active input power factor correction (PFC > 0.99)
- Three-level inverter technology (6–20K) for lower harmonics and higher efficiency

◆ Input & Operating Range

- Wide input voltage range: 90V – 300V
- Frequency range: 40Hz – 70Hz
- Automatic 50Hz/60Hz frequency sensing
- Frequency converter mode (50Hz ↔ 60Hz)

◆ Functional Features

- Generator compatible
- Cold start capability
- ECO mode for energy saving
- Optional Remote On/Off (ROO) function

◆ Load Compatibility & Application

- Supports laser printers and ultrasound equipment (customized)
 - Supports CVCF mode (Constant Voltage, Constant Frequency)
- Ideal for highly sensitive equipment

◆ Communication & Monitoring

- Standard: RS232
- Optional: USB / MODBUS / RS485 / SNMP / AS400 card

◆ Reliability & Design

- High-quality FR4 double-sided PCB
- Optimized ventilation design

◆ Applied Range

IT Network Equipment, Small-scale Servers and Workstations, Switches and Monitoring Devices, ATM Machines, Automated Ticket Vending Machines, Communication Base Stations, Office and Business Equipment, Medical Devices

◆ Series Overview

HP7310C series has an output power factor of up to 1.0, which is 25% higher than that of traditional UPS systems. The efficiency is significantly improved when operating in both normal mode and energy-saving ECO mode. It comes standard with USB and RS232 communication interfaces, and has built-in intelligent slots for additional adapters, protocol converters, and related dry contact cards.

◆ Range of applications



**Medical
Equipment**



**Office
Automation**



**Production
Equipment**



**Securities
System**



**Electronic
& Telecom**



**Aeronautics
& Astronautics**



**Army
Technology**



**Industrial
Automatic Control**

◆ Features:

- DSP Technology
- Environment Friendly
- Active input power factor correction(PFC)
- Wide range of input voltage and frequency
- Zero power switch delay
- Adaptive Load Management
- Sufficient Expansion Slots
- Support the generator

◆ Technical Specification

MODEL	HP7310C 10KT	HP7310C 10KT XL	HP7310C 15KT	HP7310C 15KT XL	HP7310C 20KT	HP7310C 20KT XL
Capacity	10KVA/10KW	10KVA/10KW	15KVA/15KW	15KVA/15KW	20KVA/20KW	20KVA/20KW
Phase	Single phase input single phase output or 3 phases input single phase output					
AC INPUT						
Wiring	Single Phase L/N+PE or 3 Phases (L1, L2, L3)/N+PE					
Rated Voltage	208/220/230/240VAC					
Voltage Range	L-N 90-300VAC; L-L 150-500VAC					
Frequency Range	40Hz-70Hz					
Input Power Factor	≥0.99					
AC OUTPUT						
Wiring	L/N+PE					
Rated Output Voltage	220VAC (208/220/230/240VAC settable by LCD)					
Voltage Regulation	±1%					
Output Frequency	50/60±4Hz (Synchronized range); 50/60Hz±0.1 (Battery mode)					
Waveform	Pure sine wave					
Power Factor	1.0					
Distortion (THDV%)	<2% (Linear) <7% (Non-Linear)					
Overload Capability	10 Min.@105%-125%; 60Sec.@125%-150%; 0.5Sec.@150%					
EFFICIENCY						
Line Mode	94% at 240VDC; 92% at 192VDC					
Battery Mode	94% at 240VDC; 92% at 192VDC					
ECO mode	97%					
BATTERY & CHARGER						
Rated Battery Voltage	192VDC	240VDC External Battery	192VDC	240VDC External Battery	192VDC	240VDC External Battery
Battery Capacity	12V9Ah*16pcs	External Battery Depends	12V7Ah*16pcs*2	External Battery Depends	12V9Ah*16pcs*2	External Battery Depends
Backup Time	>10mins@half load		>10mins@half load		>10mins@half load	
Charging Current	2A/4A (settable by LCD)	Long backup: 8A	4A	Long backup: 8A	4A	Long backup: 8A
HP317C+ 10KT	12V9Ah*32pcs	N/A	N/A	N/A	N/A	N/A
HMI						
LCD Display	Input mains voltage, frequency, load level, operation mode, health status					
Standards Communication Interface	RS232 port, EPO/ROO port, Intelligent slot, USB port.					
Optional	NMC Card, CMC MODBUS, AS400 Relay, SNMP card					
ENVIRONMENT						
Temperature Range	10-50°C					
Relative Humidity	0-98% (Non-condensing)					
Acoustics Noise	<60dB @1m	<60dB @1m	<60dB @1m	<60dB @1m	<60dB @1m	<60dB @1m
PHYSICAL						
Dimension W*D*H (mm)	190*662*482	190*574*340	300*698*700	239*581*529	300*698*700	239*581*529
N.W. (kg)	52.7	14.7	88.7	25.9	88.9	26.4

**If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.
Product specifications are subject to change without further notice.