High Power Series UPS 1-10kVA

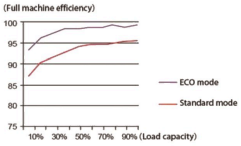




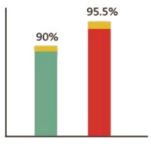
LCD control panel



One PCBA for S and L models



Efficiency across the load range



Full-load efficiency up to 95.5%

HP Series Brief

The HP series is a 1-10kVA tower online UPS built on a three-level, soft-switching design with active power factor correction. Input power factor reaches 0.99, full-load efficiency reaches 95.5% and ECO mode lifts it to 98.5%, while the high energy-density layout keeps the unit small enough to take less space in the server room.

Digital control makes a more stable system with built-in self-protection and fault diagnosis. The HP UPS protects the load, and itself, against transient voltage sag, damped oscillation, high-voltage pulses, surge voltage, harmonic distortion, noise interference and frequency fluctuation.

Why Choose HP UPS

Novel features upgraded: three-level technology and soft switching minimise switching losses, for a new generation of more reliable and efficient power products.

Higher power factor: input power factor ≥0.99 and output power factor up to 1.0, with super high load efficiency.

Higher efficiency: maximum efficiency up to 95.5% across 1-10kVA, and up to 98.5% in ECO mode, saving energy and electricity.

Larger charging current: every model supports 1A~12A charging current, so battery banks of different capacities can be configured flexibly.

Wider frequency adjustment: frequency can be set to 50Hz/60Hz ±10Hz to match the input characteristics of a generator.

Higher design standards: all models comply with EN/IEC 61000, EN/IEC 62040, GB/T7260, GB/T4943, YD/T1095 and TLC, reducing interference to the power grid and protecting the connected equipment.

Faster maintenance: the long-backup and standard models use the same PCBA, so the unit is simple to connect and easy to maintain, and the required parameters are adjusted through the LCD.

Main Features

- Three-level technique and soft-switch design
- Output power factor up to 1.0, as an industry leader
- Green-power ECO mode, efficiency up to 98.5%
- Wide input voltage range: 208/220/230/240V selectable
- Smart adjustable settings, with output voltage compensation for a transformer
- Active power factor correction (APFC), input PF up to 0.99
- High efficiency up to 95.5%, lower power loss and cost
- Selectable digital charger from 1A~12A for different batteries
- Flexible power configuration for multi-purpose, customised power
- High energy-density ratio and reduced size

Field of Application

- IT and network equipment
- Small and medium-sized data centres
- Embedded and automatic control systems
- Electrical and railway signalling systems
- Office computers, printers, scanners and MPOS
- Production line control in factories
- Computer server rooms
- Telecommunication base stations
- Security and television broadcast systems

HP Series Specifications

	Model	HP-1KS	HP-1KL	HP-2KS	HP-2KL	HP-3KS	HP-3KL	HP-6KS	HP-6KL	HP-10KS	HP-10KL
	Rated Capacity	1kVA / 1000W	1kVA / 1000W	2kVA / 2000W	2kVA / 2000W	3kVA / 3000W	3kVA / 3000W	6kVA / 6000W	6kVA / 6000W	10kVA / 10000W	10kVA / 10000W
Input	Input Format	L+N+PE									
	Rated Input Voltage	208/220/230/240VAC									
	Voltage Range	110~300VAC (power limited at 110~176VAC and 280~300VAC)									
	Frequency Range	50/60Hz ±6Hz, ±10Hz (settable)									
	Input Power Factor	≥0.99									
	Input Harmonic Distortion	1-3kVA: ≤3% THD (linear load), ≤5% THD (non-linear load); 6-10kVA: ≤5% THD (linear), ≤8% THD (non-linear); PF=0.8									
Output	Output Format	L+N+PE									
	Output Voltage	208/220/230/240VAC									
	Output Accuracy	±1%									
	Output Frequency	AC mode: same as input; Battery mode: 50/60Hz ±1%									
	Output Harmonic Distortion	1-3kVA: ≤1% THD (linear load), ≤3% THD (non-linear load); 6-10kVA: ≤2% THD (linear), ≤5% THD (non-linear); PF=0.8									
	Output Power Factor	1.0									
	Transfer Time	AC mode to battery mode: 0ms									
	Load Capacity (AC Mode)	30min @102~110% load; 10min @110~130%; 30s @130~150%; >150%: 200ms (1-3kVA), 500ms (6-10kVA)									
	Load Capacity (Battery Mode)	1-3kVA: 1min / 10s / 3s / 200ms; 6-10kVA: 10min / 1min / 10s / 500ms (at 102~110% / 110~130% / 130~150% / >150% load)									
Efficiency	AC Mode (full load)	94.5%	94.5%	95.5%	95.5%	95.5%	95.5%	95%	95%	95%	95%
	Battery Mode (full load)	89.5% @36V	89.5% @36V	91.5% @72V	91.5% @72V	91.5% @96V	91.5% @96V	94.2% @240V	94.2% @240V	94.2% @240V	94.2% @240V
	Maximum Efficiency	AC mode up to 95.5% @220VAC; ECO mode up to 98.5%; battery mode up to 95.3% (6-10kVA)									
Battery	Battery Quantity / Voltage	2×12V-9Ah	36V	6×12V-7Ah	72V	8×12V-7Ah	96V	20×12V-7Ah	192V / 240V	20×12V-9Ah	192V / 240V
	Backup Time	Depends on the user's requirement and configuration									
	Charging Current, adjustable (default)	1~2A (1A)	1~12A (5A)	1~2A (1A)	1~12A (5A)	1~2A (1A)	1~12A (5A)	1~12A (5A)	1~12A (5A)	1~12A (5A)	1~12A (5A)
Environment	Ambient Temperature	0~40°C									
	Ambient Humidity	20%~95% (no condensation)									
	Storage Temperature	-15~60°C (battery: 0~40°C)									
	Altitude	<1000m; derating above 1000m, maximum 4000m (refer to IEC 62040)									
	LCD Display	Working mode, load, battery power, input, output, etc.									
	Standards	EN/IEC 61000, EN/IEC 62040, GB/T 4943, YD/T 1095, TLC, etc.									
	Communication Interface	1×USB, 1×RS232, 1×EPO									
Physical	Case Size (L×W×H) mm	285×144×225	285×144×225	395×144×225	395×144×225	410×190×325	395×144×225	460×200×720	460×200×360	460×190×615	395×190×325
	Weight (kg)	9.25	5	16	8.5	28.2	9 (1 pc)	69.5	14	50.8	9.6

Product specifications are subject to change without further notice.