

# Datasheet

On-line UPS 3 Pha  
Tower  
10KVA



# 1 Overview

## 1.1 Features

### High reliability:

- Advanced DPS and True Online double conversion/ IGBT technology
- Fan speed is changed intelligently based on the temperature which help to reduce noise and increase the fan life
- Designed at the rear front of UPS, the fan works with slow speed which enhances the ability of working during a long time in a hard condition.
- Effective software and hardware protection function
- High reliability with advanced DPS technology.

### High Availability

- Wide input voltage range, 50Hz frequency auto-sensing within 44Hz-56Hz, suitable for different grid environments.
- Linear load reduction at low voltage input, reducing the battery discharge time to prolong battery life.
- Output power factor is 0.8
- Flexible battery configuration (16 -20 batteries - selectable) saves the user's cost
- Double the recharging battery speed, 90% capacity restored in 4 hours for standard model
- Ability to switch on the UPS with batteries.
- Transfer time 0ms ensures the uninterruptible power
- Settable delayed start time when mains power is restored, reducing the impact on grid or generator.

### High usability

- LCD+LED display, multi-functional keys operation, friendly human-machine interface,
- Powerful background software for parameters configuration and online update
- Compact internal layout, miniaturized the complete unit for small footprint.

### High intelligence



Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts which manage UPS working. Especially, SNMP can manage and control the network in distance.

## Save energy and protect the environment











- Active power factor correction (APFC), input power factor up to 0.99
- Efficiency can be up to 98% at Eco mode
- Auto ON/OFF according to the load capacity settable by the user.

## Options:

- RS232 and intelligent slot included. Optional parallel function, USB, SNMP card, RS485 and dry contacts.

## Notes :

Symbols

Symbols	Significations	Symbols	Significations
	Caution		Protective earth
	Danger! High voltage		Disable/mute audible alarm
ON / I	Turn on		Bypass
OFF/O	Turn off		Battery inspection
	AC		Recycle
	DC		Battery

## 1.2 Specifications

MODEL	HD-10K2
Capacity	10KVA/8KW
Technology	3 phases, digital control with True On-line double conversion
INPUT	
Rated input voltage	3 phases, 380/400/415 Vac (selectable)
Voltage range	$\pm 15\%$ (325-477 VAC)
Frequency range	50/60Hz( Auto sensing); 50Hz( 44 ~ 56Hz);
Power factor	$\geq 0.99$
Total harmonic distortion (THDi)	$\leq 3\%$
Bypass voltage range	- 40% ~ + 15% (selectable)
OUTPUT	
Power factor	8kW( PF 0.8)
Rated output voltage	1 phase, 220/ 230/ 240Vac (Auto sensing or selectable)
Output accuracy	$\pm 1\%$
Output Frequency	50Hz $\pm 1\%$ ; 50/60Hz $\pm 0.1\%$ ( BAT mode)
Waveform	Pure sine wave
Outlets	Terminal block
Crest factor	3:1
Total harmonic distortion (THDv)	$< 1\%$
Overload	Tải <105%: Keep working; 105%< tải <125%: 1min 125 %< tải $\leq 135\%$ : 30s.
BATTERY PACK + BATTERIES	
DC Voltage	192Vdc
Battery capacity	Battery pack + 16pcs *12V 24 Ah
Backup time full load 100% at 7KW	$\geq 20$ mins

Recharging time	90% capacity restored in 4 hours.
Battery type	VRLA, Sealed lead- acid maintenance free, battery life 5 years.
ABM function	Advanced battery management ( auto battery test, quick test, capacity test, increasing battery life)
<b>SYSTEM</b>	
Efficiency	≥ 90%, ECO mode 98%
LCD/LED display	Operations mode, battery capacity, load, main mode, bypass mode, fault....
Alarm	By sound and flash light.
Protections	Auto shutdown (or transfer to bypass), in case of overload, overvoltage, undervoltage, overtemperature, battery low voltage, short-circuit, and fan fault.
<b>COMMUNICATIONS</b>	
Communications and UPS management software	. RS232: Winpower – UPS monitoring & system shutdown software included; . EPO: Emergency power off; . RS485/Dry contacts: Optional; Support Windows 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10;
SNMP	SNMP card: System management software via web browser. Manage, report, record, turn on/off ups via network.
Parallel funtion	Option, N+X capabilities 4 UPS
<b>OTHERS</b>	
Humidity	20 ~ 90% RH(non condensing)
Temperature	Operation temperature: 0°C ~ 40°C Storage temperature: -25°C ~ 55°C
Noise	< 60 dB( 1m)
Dimensions UPS (D*W*H)(mm)	615 x 250x x510
Net weight UPS (kg)	25