

Datasheet

On-line UPS
Tower
6KVA



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 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.

- Intelligent battery management automatic floating/equalizing charge control, charger dormancy control to increase the battery life.

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-6KS
Capacity	6KVA/4.8KW
Technology	True online double conversion, IGBT
INPUT	
Nominated voltage	1 phase, 220 / 230 / 240 Vac (Selectable)
Voltage range	±20% (187~276Vac)
Frequency range	50/60Hz (Auto- sensing); 50Hz (44 ~ 56 Hz)
Power factor	≥ 0.99
THDi	≤ 3%
Bypass voltage range	- 40% ~ + 15% (selectable)
OUTPUT	
Capacity	4.8KW
Voltage	1 phase, 220 / 230 / 240 Vac (Auto-sensing or selectable)
Voltage tolerance	± 1%
Frequency	50Hz±1%; 50/60Hz±0.1% (battery mode)
Waveform	Pure sine wave
Crest factor	3:1
THDv	1%
Bypass Overload capacity	Load ≤105%: Keep working; 105%<load≤125%: 1 min 125 %< load ≤135%: 30s.
Transfer time	0ms
BATTERY PACK + BATTERIES	
Battery voltage	192Vdc
Battery capacity	Battery pack + 16pcs * 12V/18AH
Recharging time	90% capacity restored in 4 hours
Battery type	Sealed lead acid maintenance free battery. Battery life: ≥ 5 years

Battery test	Auto battery test, quick test, battery capacity test
Backup time	≥20 mins with full load at 4.8KW
SYSTEM	
Efficiency	95.5%, ECO mode ≥98%
LCD/LED Display	Load, Battery, input, output, operation modes.
Sound alarm	Overload, overvoltage, overtemperature, undervoltage, low battery voltage, fan fault...
Protections	Auto shutdown (or transfer to bypass) in case of high/low battery voltage, overtemperature, overload, short circuit, fan fault...
EMI	IEC/EN62040-2 / LCD monitoring by processor
COMMUNICATIONS	
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 function	Option, N+X capabilities 4 UPS
OTHER	
Humidity	20 ~ 90% RH(non condensing)
Temperature	Operation temperature: 0°C ~ 40°C Storage temperature: -25°C ~ 55°C (without battery)
Noise @ 100% load	<55 dB(1m)
Dimensions UPS (W*H*D)(mm)	500*240*462
Net weight UPS(kg)	16