



Online UPS

A900

1KVA~10KVA

PF 0.9



Ideal applications

Centralized server center, mainframe, network control center, computing center

Online HF UPS A900 series 1KVA ~ 10KVA is Winfull new generation UPS, we adopt the latest R & D achievements and application experience. With advanced DSP digital control technology, it improves performance & system reliability effectively, and achieves higher level of power density and miniaturization. Besides that, to meet all customer's individualized needs, as a high-end small power range online UPS, A900 can offer highly reliable power for departmental servers, small local area networks, workstations, industrial machines, small medical equipment, and other small precision electronic devices

Features

Adopt DSP digital control technology

- Adopt advanced DSP digital control technology, it improves performance & system reliability effectively, and achieves higher level of power density and miniaturization.
- Besides that, it can meet all customers' individualized needs, A900 Series 1 ~ 10KVA provide very rich extensible function, users can configure the need flexibly

Output power factor 0.9

- PF 0.9 is more suitable for the trend of electrical equipment, and can take more load. With new ECO (Economic) function, system efficiency can achieve 94%, it lower UPS power consumption and save user's cost.

Input PFC

- Adopt digital control input PFC technology, Input Power Factor can be more than 0.98, it avoids pollution to power grid, saves energy, and also reduces cost

Digital Control at DC-DC Converter

- A900 1~10KVA UPS adopt digital control, use Digital Control at DC-DC converter part instead of Analog Control in the past, and it is more reliable.

Wide input voltage range

- Extremely wide input voltage and frequency range, even in very poor power environment of the remote areas can normally supply the power. It reduced the frequency of battery discharge so that the battery life can be prolonged.

Perfect protection

- The UPS contain I/P and O/P over-protection, short voltage protection, overload protection, short-circuit protection, inverter over-heat protection, battery low voltage warning protection and battery overcharge protection, etc. Which is the above greatly ensure the stability and reliability of running the system.
- With bypass function, when the output overload or UPS failure, can turn to bypass without interruption, and supply power to load by mains supply, accordingly provide alarm information.
- With input L and N lines detective function, can prevent the danger caused by the inversion of L and N lines.

Cold start and mains power start function.

- For emergency status, UPS can start with battery directly when the mains power anomalies.
- UPS can start directly without battery; can be used for high precision stabilizer

Compatible with generators

- Wide range of input voltage and frequency, that can effectively isolate the adverse power from generator, can provide clean, safe and stable power supply to the load.

Intelligent Battery Management

- It adopts intelligent management technology to charge by three steps, to effectively extend battery life and reduce the number of battery maintenance
- The battery can be self-testing to find battery problem timely.
- With battery voltage, overcharge protection, etc., to maximize the protection of the battery is not damaged;

Rear Panel



- 1 Overcurrent Protection
- 2 AC Input
- 3 Modern/Tel/Fax
- 4 DC Input
- 5 Outlet
- 6 FAN
- 7 RS232
- 8 SNMP/USB/AS400(Optional)



Specifications

Model	A901	A902	A903	A906	A9010
Capacity	1KVA	2KVA	3KVA	6KVA	10KVA
Input	220V				
Rated input voltage	50Hz/60Hz (self-adaption)				
Rated input frequency	110 ~ 295 ± 5VAC (Half load); 140 ~ 295 ± 5VAC (Full load)				
Input voltage Range	45-55Hz +/-0.5% 50Hz; 55-65Hz +/-0.5% 60Hz				
Input frequency Range	single phase+N+GND				
Phase	≥0.98				
Power factor	5.0A	9.0A	14.0A	27.0A	46.0A
Input current (liner full load)	<6%				
THD	186VAC-252VAC				
ByPass voltage range	Output				
Rated voltage	208VAC/220VAC/230VAC/240VAC can be set on LCD				
Power factor	0.9				
Voltage distortion	± 1%				
DC component voltage	≤200mv				
Output current crest factor	3:1				
Rated frequency	AC mode				
AC mode	same as input frequency				
Battery mode	50/60±0.2Hz				
Phase lock speed	≤1Hz/s				
Wave distortion	100% linear load <3%; 100%; nonlinear load <5%				
Transfer time	From Mains mode to battery mode				
From Mains mode to battery mode	0ms				
From battery mode to Mains mode	0ms				
From Mains mode to bypass mode	< 4ms				
From bypass mode to Mains mode	< 4ms				
From normal mode to ECO mode	< 10ms				
System Efficiency	Full load	≥90%			NO ECO
ECO mode	≥94%				≥92%
Inverter overload capacity	105% ~ 150% 30s transfer to bypass mode giving alarm; > 150% 300ms transfer to bypass mode giving alarm;				
Battery	105% ~ 125% 10min transfer to bypass mode giving alarm; 125% ~ 150% 30s transfer to bypass mode giving alarm; > 150% 100ms transfer to bypass mode giving alarm;				
Battery type	Lead Acid maintenance free battery				
DC voltage	24V DC	48V DC	72V DC	192V DC	
Inbuilt battery	9AH/12V	9AH/12V	9AH/12V	9AH/12V	
Battery quantity	2	4	6	16	
Charge	Output voltage				
Output voltage	27.5±0.4V	55±0.6V	82.5±0.9V	220.8±1.0V	
Charge method	Three-stage charging				
Recharge time	90% capacity after 5hrs charging (standard model); According to battery capacity(long time model)				
Input voltage range	80VAC-300VAC		150VAC-300VAC		
Charge current	Standard model:1A; Long time model: 6A(Optional12A)		Standard model:1A; Long time model: 1A(AS400/AS400 setting)		
Protection	Over-temp protection; Fan testing protection ;				
Control	AC L and N connect wrong protection; Output short circuit protection				
Communication	Silence; cold start; AC restart; Auto restart.				
Display	RS232, SNMP card , USB				
System Operating Environment	Software function; Statue analyze: Switch on/off UPS system, Monitor UPS working state ,store history				
Operating environment	LCD+LED				
Operation tem.	0 ~ 40°C				
Store tem.	-25°C ~ 55°C				
Humidity	20 ~ 90% (non-condensing)				
Altitude	0m < altitude < 1500m, over 1500m, used with power derated				
Noise	<50db				
UPS Dimension(WxDxH)mm	(Long time mode)	483 x 442 x 88	483 x 492 x 88	483x560x132(UPS)	
	(Standard model)		483 x 600 x 88	483x560x131(Battery bank)	
	(Long time mode)	530 x 700 x 165	530 x 700 x 165	535x660x215(UPS)	
	(Standard model)	530 x 600 x 165	530 x 810 x 165	546x676x226(Battery bank)	
Packing Dimension(WxDxH)mm	(Long time mode)	9.5/10.5	12.5/13.5	13.5/14.5	19.0/21.2
	(Standard model)	13.8/14.8	21.0/22.0	30.5/31.5	59.0/63.6
Net/Gross Weight(Kg)					60.0/64.6

◆ All specifications subject to change without notice.
◆ Custom-made specifications are acceptable