Product Features of ME900II Series Online UPS

This new 900II series HF online UPS is ideal for providing clean, well-regulated and stable power output to critical equipments in centralized server data center, mainframe computer center, network control center, and computing center, etc.

Main Features:

1. Advanced DSP digital control technology
This new series of high frequency online UPS utilizes advanced DSP digital control technology that greatly improves the performance and system reliability, and achieves higher level of power density and reduction in UPS sizes. The UPS power capacity is available in 1KVA, 2KVA, 3KVA, 6KVA and 10KVA.

2. High output power factor (PF = 0.8)
The output power factor has been increased to 0.8 in this UPS. With the introduction of a new ECO (economic) mode, system efficiency can reach 95%. Therefore, it has lower power consumption and will help to save user's cost.

3. Input PFC (> 0.98)
With the use of digital control input PFC technology, the input power factor of this UPS is greater than 0.98. This will help to avoid injecting pollution to power grid, saves energy, and also reduces over-all costs.

4. Digital Control for DC-DC Converter
This UPS has digital control in DC-DC converter (instead of traditional analog control), which greatly improves UPS reliability.

5. Green, Environmental Friendly Model

This UPS is designed to be a green UPS model. It complies with ROHS and National Electronics Pollution Management Solutions. Under normal use, it will not cause harm to humans and environment.

6. Wide input voltage range
The 900II series UPS has extremely wide input voltage & frequency range. Therefore, it is able to provide emergency power even in remote areas where the power condition is poor. This will effectively reduce the frequency of battery charging & discharging process, so the battery life can be increased.

This UPS has following protection features: Input and output over-range protection, short voltage protection, overload protection, short-circuit protection, inverter over-heat protection, battery low voltage warning protection and battery overcharge protection, etc. These functions greatly improve the stability and reliability of UPS operations.

7. Perfect Protection
The 900II series UPS has build-in bypass function. When there is overloading condition or UPS failure problem, the UPS system can be automatically switched to bypass mode, and continuously provide power to the load from mains power supply. Also, alarm information is provided in this case.
With input polarity detection function, the UPS can prevent the danger caused by the reverse of input polarity between hot and neutral lines.

8. Cold start and mains power start function.
For emergency situation, UPS can be turned on with battery power when the main input power fails.
UPS can also be started directly from main power without battery, so it can be used as high precision voltage stabilizer & regulator.

9. Generator friendly application
This UPS has very wide input voltage & frequency range. It is capable of isolating unstable power coming from the generators, and providing a clean, safe, and well-regulated stable power source to your critical loads.

10. Zero switching time
Double-conversion online UPS design allows this UPS to generate pure sine wave output power without any interference from the mains supply source (including generators). Therefore, it can provide complete protection for your critical loads. When the mains power supply source is not stable, the UPS can immediately switch to battery backup mode to provide clean and stable output with zero transfer time. It will ensure the safe and reliable operation of your critical equipments.

11. Intelligent Battery Management
The UPS adopts intelligent management technology for battery charging and the UPS battery charging is performed in three steps. This effectively increase battery life and reduces battery maintenance burdens. Battery self-testing is available in order to find potential battery problem on time. With over-voltage and over-charging protections, the UPS can protect the batteries effectively.

12. User-Friendly Human Machine Interface
Large user-friendly LCD and LED status indicators on front panel clearly show the operating status of UPS.

13. Powerful extensibility features (optional)
This UPS has smart slots to allow users to install optional UPS smart 2000 monitoring card, SNMP card, RS485, AS400 card, and EMD environmental monitor when needed.

Specifications of ME900II Series High Frequency Online UPS – Tower

Model #		**ME901 II**	**ME902 II**	**ME903 II**	**ME906 II**	**ME9010 II**
Capacity		1KVA/800W	2KVA/1600W	3KVA/2400W	6KVA/4800W	10KVA/8KW
INPUT						
Rated input voltage		220V				
Rated input frequency		50Hz/60Hz (self-adaption)				
Input voltage range		110 VAC～300 VAC (Half load); 140～300VAC (Full load)				
Input frequency range		45-55Hz +/-0.5% 50Hz				
		55-65Hz +/-0.5% 60Hz				
Phase		Single phase L+N+GND				
Power factor		≥0.98			≥0.99	
Input current (liner full load)		4.0A	8.1A	12.1A	24.2A	40.4A
THD		< 5%				
Bypass voltage range		186VAC~252VAC				
OUTPUT						
Rated voltage		208VAC/220VAC/230VAC/240VAC (can be set on LCD)				
Power factor		0.8				
Voltage distortion		±2%				
DC voltage component		≤200mv				
Output current crest factor		3:1				
Rated Frequency						
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 Normal Mode to Battery Mode		0ms				
From Battery Mode to Normal Mode		0ms				
From Normal Mode to Bypass Mode		＜4ms			<0ms	
From Bypass Mode to Normal Mode		＜4ms			<0ms	
From Normal Mode to ECO Mode		<10ms			<0ms	
System Efficiency	Full load	≧90 %			≧92%	
	ECO Mode	≧94%				
Inverter Overloading Capacity		105%～150%, 30s transfer to Bypass Mode; giving alarm			105%～130%; 10mins transfer to Bypass Mode; giving alarm	

	＞150%, 300ms transfer to Bypass Mode; giving alarm				130%～150%, 1min transfer to Bypass Mode; giving alarm	
Battery						
Battery type	Lead acid maintenance free battery					
DC voltage	24V DC	48V DC	72V DC	168V DC	168V DC	
Pre-installed battery	9AH/12V	9AH/12V	9AH/12V	9AH/12V	9AH/12V	
Battery quantity	2	4	6	14	14	
Charging						
Output voltage	27.5±0.4V	55±0.6V	82.5±0.9V	193.7±0.9V	193.7±0.9V	
Charge method	Three-stage charging					
Recharging time	90% capacity after 5 hours charging (standard model)					
	Depending on battery capacity (long time model)					
Input voltage range	80VAC~300VAC					
Charging current	Standard model: 1A					
	Long time model: 6A					
	(can extend to 12A)					
Protection						
Over-temp protection						
Fan testing protection						
AC input Line & Neutral polarity wrong protection						
Output short circuit protection						
Control						
Silence; cold start; AC restart; Auto restart.						
Communication						
RS232, SNMP card , USB						
Software Functions						
Status analyze: UPS Switch on/off system, UPS working state monitor, Storage history						
Display	LCD/LED					
System Operating Environment						
Operating Environment	Operating temp.	0 ～ 40 ℃				
	Storage temp.	-25℃ ～ 55 ℃				
	Humidity	20 ～ 90% (non-condensing)				
	Altitude	0m＜altitude ＜1500m,				
		over 1500m, used with power reduced				
Noise	＜50db (1-3kva)					
	＜55db(6-10kva)					
UPS Dimension (W*D*H in mm)	357*144*215	439*190*341	439*190*341	514*262*455		
				(Long time model)		
				574*262*710		

					(Standard model)
Packing Dimension (W*D*H)	Long time model	440*225*310	550*320*462		650*360*540
	Standard model	445*230*315			650*360*795
Net/Gross Weight (KG)	Long time model	6.0/7.0	12.0/13.3	12.5/13.8	42.0/44.3
	Standard model	10.0/11.1	20.0/21.3	24.0/25.3	75.0/77.3