Product Features of ME900II-R Online UPS

ME900IIR series rack mount 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 AC 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 AC main power without battery, so it can also 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 900IIR Online UPS – Rack Mount

Model	**ME901IIRS** (standard)	**ME901IIRH** (long runtime)	**ME902IIRS** (standard)	**ME902IIRH** (long runtime)	**ME903IIRS** (standard)	**ME903IIRH** (long runtime)
Capacity	1KVA / 800W		2KVA / 1600W		3KVA / 2400W	
INPUT						
Rated input voltage	220V					
Rated input frequency	50Hz/60Hz (self-adaption)					
Input voltage range	110 VAC～300 VAC (Half load); 140 VAC～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					
Input current (liner full load)	4.0A		8.1A		40.4A	
THD	< 6%					
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 component voltage	≤200mv					
Output current crest factor	3:1					
Rated Frequency						
AC mode	same as input frequency					
Battery mode	50/60 ±0.2 Hz					
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 Mains Mode	0ms					
From Normal Mode to Bypass Node	＜4ms					
From Bypass Mode to Normal Mode	＜4ms					
From Normal Mode to ECO Mode	<10ms					
System Efficiency Full load	≧90 %					
System Efficiency ECO mode	≧94%					
Inverter Overloading	105%～150%, 30s transfer to bypass mode; giving alarm.					

Capacity	＞150%, 300ms transfer to bypass mode; giving alarm.					
Battery						
Battery type	Lead Acid maintenance free battery					
DC voltage	24V DC		48V DC		72V DC	
Configuration	2 pieces 9AH/12V	External Battery	4 pieces 9AH/12V	External Battery	6 pieces 9AH/12V	External Battery
Charging Current	1A	6A (optional 12A)	1A	6A (optional 12A)	1A	6A (optional 12A)
Charging						
Output voltage	27.5±0.4V		55±0.6V		82.5±0.9V	
Charge method	Three-stage charging					
Recharge time	90% capacity after 5hrs of charging (standard model)					
	Depends 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 L and N wrong connection protection						
Output short circuit protection						
Control						
Silence; cold start; AC restart; Auto restart.						
Communication						
RS232, SNMP card , USB						
Software Function						
Status analyze: UPS Switch on/off system, UPS working state monitor, storage history						
Display	LCD / LED					
System Operating Environment						
Operating Environment	Operation 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)	483x442x88		483x600x88	483x492x88	483x600x88	483x492x88
Packing Dimension (W*D*H)	530x600x165		530x810x165	530x700x165	530x600x165	530x700x165

Gross / Net Weight (KG)	13.8/14.8	9.5/10.5	21.0/22.0	12.5/13.5	30.5/31.5	13.5/14.5