AR903PS 3kVA/2.7kW With USB



Features

- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3 h (standard model UPS)

- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232, USB (standard) RS485 / SNMP / dry contacts (optional)

Available Options

 Optional RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, and 12 A charger (2/3 kVA only)



Optional outlets

Rear Panel

- 1. Overcurrent Protection
- 2. AC Input
- 3. Modem/Tel/Fax
- 4. DC Input
- 5. Outlets 6. Fan
- 7. RS232
- 8. EPO (optional)
- 9. USB (standard)
- 10. SNMP/AS400 (optional)



Specifications

MODEL	AR903PS	
Capacity	3 kVA / 2700 W	
INPUT		
Rated voltage	208 / 220 / 230 / 240 Vac	
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)	
Frequency	40 ~ 70 Hz (auto-sensing)	
Power factor	≥ 0.99	
Bypass voltage range	- 25% ~ +15% (settable)	
Total harmonic distortion (THDi)	\leqslant 6%	
OUTPUT		
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)	
Voltage regulation	± 1%	
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz±0.1 Hz (battery mode)	
Waveform	Sinusoidal	
Power factor	0.9	
Total harmonic distortion (THDv)	\leq 2% (linear load), \leq 5% (non-linear load)	
Crest factor	3:1	
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms	
BATTERIES		
DC voltage	72 V	96 V
Inbuilt battery	6×9 Ah	8×7 Ah
Charging current (max.)	1 A	
Recharge time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery	
SYSTEM		
	\geqslant 92% (Mains mode)	
Efficiency	≥ 87% (Battery mode)	
	≥ 97% (ECO mode)	
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)	
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection	
Communications	RS232, USB(standard) / RS485 / dry contacts / SNMP (optional)	
Display	LCD + LED	
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3	
OTHERS		
Operating temperature	0°C ~ 40°C	
Storage temperature	-25°C ~ 55°C (without batteries)	
Relative Humidity	0 ~ 95% (non-condensing)	
Altitude	\leqslant 1000 m, derating 1% for each additional 100 m	
IP rating	IP 20	
Noise level at 1m	≤ 50 dB	
Dimensions (W×D×H) (mm)	191 × 418 × 335	191×464 ×335
Packaged dimensions (W×D×H) (mm)	277× 500 × 435	320×573×472
Net weight (kg)	27.2	32
Gross weight (kg)	29	34

• Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.

•S means standard model, H means long time model.

•All specifications are subject to change without notice.

•Custom-made specifications are acceptable.