

# TRUE ONLINE UPS

## AP900FC

1 kVA ~ 3 kVA  
PF 0.9

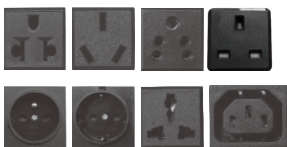


### Features

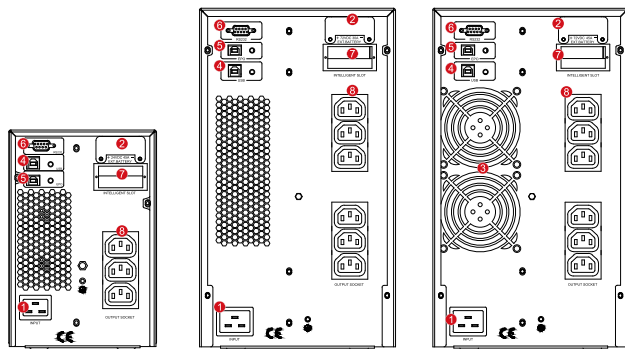
- High frequency on-line double conversion technology
- DSP (Digital signal processing ) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 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 4h (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 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, and 12 A charger (2/3 kVA only)

### Rear Panel

1. AC input socket
2. Battery connector
3. Fan
4. USB
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets



Optional outlets



AP901FC

AP902FC

AP903FC

## Specifications

MODEL	AP901FC	AP902FC	AP903FC
Capacity	1 kVA / 900 W	2 kVA / 1800 W	3 kVA / 2700 W
<b>INPUT</b>			
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)	≤ 6%		
<b>OUTPUT</b>			
Voltage	220 Vac & 100 / 120 Vac		
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)	≤ 2% (linear load), ≤ 5% (non-linear load)		
Crest factor	3:1		
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms		
<b>BATTERIES</b>			
DC voltage	36 V	72 V	72 V
Inbuilt battery	3pcs x 12V	6pcs x 12V	6pcs x 12V
Charging current (max.)	1 A	1 A	1 A
Recharge time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery		
<b>SYSTEM</b>			
Efficiency	≥ 90% (Mains mode)	≥ 91% (Mains mode)	≥ 92% (Mains mode)
	≥ 85% (Battery mode)	≥ 86% (Battery mode)	≥ 87% (Battery mode)
	≥ 95% (ECO mode)	≥ 96% (ECO 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 (standard), USB / 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		
<b>OTHERS</b>			
Operating temperature	0°C ~ 40°C		
Storage temperature	-25°C ~ 55°C (without batteries)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	≤ 1000 m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1m	≤ 50 dB		
Dimensions (W×D×H) (mm)	144 x 317 x 216	191 x 419 x 335	191 x 419 x 335
Packaged dimensions (W×D×H) (mm)	230 x 460 x 315	277 x 500 x 435	277 x 500 x 435
Net weight (kg)	9.0	11.0	13.0
Gross weight (kg)	10.0	12.0	14.0

- Derate capacity to 90% when the output voltage is adjusted to 208 Vac.
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.