

AP9100 Pro RT

1 kVA ~ 3 kVA
PF 0.9

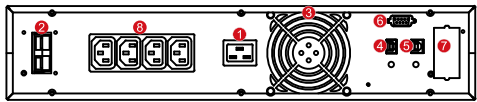


Features

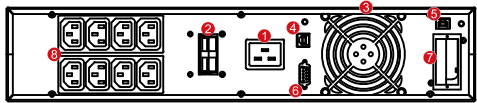
- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 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 3h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Hot-swappable battery
- 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, MBS (External maintenance bypass switch)

Rear Panel

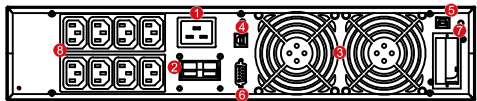
1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets



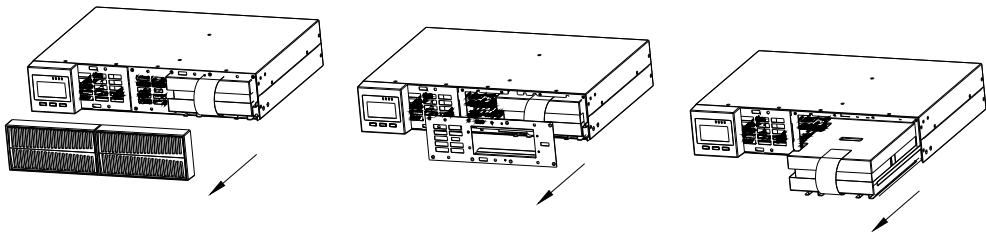
1kVAS



2kVAS



3kVAS



Easy for maintenance, hot-swappable battery

Specifications

MODEL	AP9101RT		AP9101RTH	AP9102RT	AP9102RTH	AP9103RT	AP9103RTH
Capacity	1 kVA / 900 W			2 kVA / 1800 W		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	≤ 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)	≤ 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						
BATTERIES							
DC voltage	36 V (S)	36 V (H)	48V (S)	72 V (H)	72 V (S)	96 V (H)	
Inbuilt battery	3×7 Ah	/	4×9 Ah	/	6×9 Ah	/	
Charging current (max.)	1 A	6 A	1 A	6 A	1 A	6 A	
Recharger time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery						
SYSTEM							
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						
OTHERS							
Operating temperature	0℃ ~ 40℃						
Storage temperature	-25℃ ~ 55℃ (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)	440 x 430 x 88	440 x 468 x 88	440 x 430 x 88	440 x 468 x 88	440 x 560 x 88	440 x 468 x 88	
Packaged dimensions (W×D×H) (mm)	545 x 560 x 201	545 x 592 x 201	545 x 560 x 201	545 x 592 x 201	545 x 690 x 201	545 x 592 x 201	
Net weight(kg)	15.5	7.6	18.7	9.7	26.8	10.1	
Gross weight(kg)	18.6	11.1	21.8	13.2	29.7	13.6	

- 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.