

# ARES

## AR900G4

6 kVA ~ 10 kVA

PF 1.0



### Features

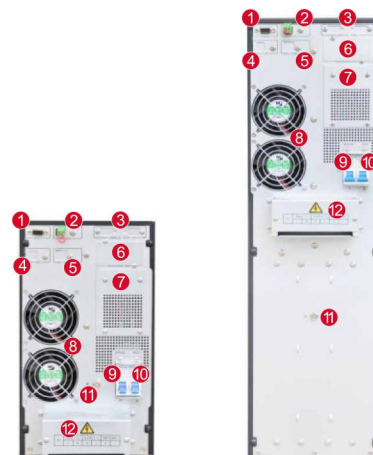
- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

### Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

### Rear Panel

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB (optional)
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved: for manual bypass or battery breaker or outlets ect.
8. Fans
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover



6/10 kVA (H)

6/10 kVA (S)

## Specifications

MODEL	AR906 G4 AR906H G4	AR9010 G4 AR9010H G4
Capacity	6 kVA / 6 kW	10 kVA / 10 kW
<b>INPUT</b>		
Input wiring	Single-phase three-wire (1 $\Phi$ + N + PE)	
Rated voltage	208 / 220 / 230 / 240 Vac	
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)	
Rated frequency	50 / 60 Hz (auto-sensing)	
Frequency range	40 ~ 70 Hz	
Power factor	$\geq 0.99$	
Bypass voltage range	- 40% ~ +15% (settable)	
Total harmonic distortion (THDi)	$\leq 5\%$	
<b>OUTPUT</b>		
Output wiring	Single-phase three-wire (1 $\Phi$ + N + PE)	
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac	
Voltage regulation	$\pm 1\%$	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz $\pm 0.1\%$ Hz in battery mode	
Waveform	Sinusoidal	
Power factor	1	
Total harmonic distortion (THDv)	$\leq 1\%$ (linear load); $\leq 4\%$ (non-linear load)	
Crest factor	3:1	
Overload	102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s	
<b>BATTERIES</b>		
DC voltage	192 Vdc (192 ~ 240 Vdc settable)	
Number of battery	16 pcs (16 ~ 20 settable)	
Inbuilt battery (standard model)	12 V / 7 Ah $\times$ 16 (standard model) /	12 V / 9 Ah $\times$ 16 (standard model) /
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 12 A (optional)	
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery	
<b>SYSTEM</b>		
Efficiency	$\geq 94\%$ at 100% load, max. 95% at 60% load, $\geq 98\%$ in ECO mode	
Transfer time	0 ms	
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure	
Max. number of parallel connections	4	
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)	
Display	LCD + LED	
<b>OTHERS</b>		
Operating temperature	0 $^{\circ}$ C ~ 40 $^{\circ}$ C	
Storage temperature	-25 $^{\circ}$ C ~ 55 $^{\circ}$ C (without battery)	
Relative humidity	0 ~ 95% (non-condensing)	
Altitude	$\leq 1000$ m, derating 1% for each additional 100 m	
IP rating	IP 20	
Noise level at 1 m	$\leq 55$ dB	$\leq 58$ dB
Dimensions (W $\times$ D $\times$ H) (mm)	191 $\times$ 465 $\times$ 711 (S), 191 $\times$ 465 $\times$ 350 (H)	191 $\times$ 495 $\times$ 711 (S), 191 $\times$ 495 $\times$ 350 (H)
Packaged dimensions (W $\times$ D $\times$ H) (mm)	310 $\times$ 654 $\times$ 941 (S), 318 $\times$ 595 $\times$ 475 (H)	310 $\times$ 685 $\times$ 941 (S), 318 $\times$ 617 $\times$ 475 (H)
Net weight (kg)	53 (S), 14.5 (H)	62 (S), 16.5 (H)
Gross weight (kg)	61 (S), 16 (H)	70 (S), 18 (H)

- S means standard model; H means long time model.
- All specifications are subject to change without notice.