



آریاتک
Aryatak

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ARYA900G4

6 kVA ~ 20 kVA

PF 1.0



1:1



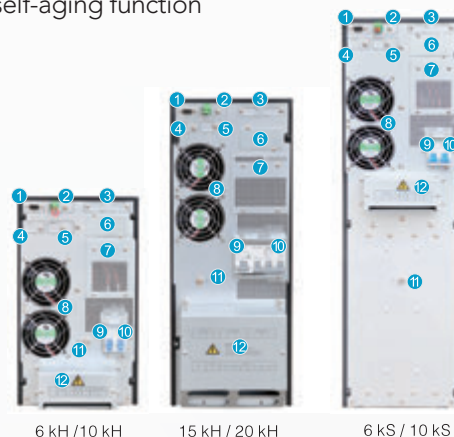
FEATURES

- Advanced DSP (Digital signal processors) technology
- Variable speed fan
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check
- Advanced digital parallel technology
- Wide input voltage range, 60/50 Hz frequency auto sensing
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Dual-input design, supporting independent bypass
- Output power factor improved from 0.9 to 1, load capacity increased by %13
- Flexible battery configuration (sellable 20-16 pes batteries)

REAR PANEL

- | | |
|--|----------------------------------|
| 1. RS232 | 8. Fans |
| 2. EPO | 9. Bypass breaker |
| 3. Parallel port(optional) | 10. Input breaker |
| 4. USB (optional) | 11. GND |
| 5. Temperature detection (optional) | 12. Terminals and terminal cover |
| 6. SNMP (optional) | |
| 7. Reserved: for customer function such as manual bypass, battery breaker, socket ect. | |

- Charging voltage and current configured by demands
- Ability to switch on the UPS with batteries
- Sellable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Two modes of frequency conversion
- Powerful background software for parameters configuration
- Intelligent battery management, automatic floating I equalizing charge control, charger dormancy control, increasing battery life by %50
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency %95 (up to %98 in ECO mode)
- Equipped with self-aging function



MODEL	6 kVA	10 kVA	15 kVA	20 kVA
Capacity	6 kVA / 6000 W	10 kVA / 10000 W	15 kVA / 15000 W	20 kVA / 20000 W
INPUT				
Input wiring	Single-phase three-wire (1 ϕ + N + PE)			
Rated voltage	208 V / 220 V / 230 V / 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	≥ 0.99			
Bypass voltage range	-40 % ~ +15 % (settable)			
Total harmonic distortion (THDI)	≤ 5 %			
OUTPUT				
Output wiring	Single-phase three-wire (1 ϕ + N + PE)			
Rated voltage	208 V (PF=0.9) / 220 V / 230 V / 240 Vac			
Voltage regulation	± 1 %			
Frequency	Synchronized to bypass in mains mode; 50 / 60Hz ± 0.1 % Hz in battery mode			
Waveform	Sinusoidal			
Power factor	1			
Total harmonic distortion (THDV)	≤ 1 % (linear load); ≤ 4 % (non-linear load)		≤ 1 % (linear load); ≤ 3 % (non-linear load)	
Crest factor	3:1			
Overload capability	102 % ~ 110 %for 10 min, 110 % ~ 125 % for 1 min,125 % ~ 150 % for 30 s			
BATTERIES				
DC voltage	192 Vdc (192 / 240 Vdc sellable)			
Number of battery	16 pes (16 ~ 20 sellable)			
Inbuilt battery (standard model)	12/7 Ah × 16	12/9 Ah × 16	/	/
Charging current	Standard model: 1 A; Long time model: 5 A (default),1 ~ 5 A sellable; 12 A (6 - 10 kVA optional); 10 A (15 - 20 kVA optional)			
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery			
SYSTEM				
Efficiency	≥ 94 % at 100 % load, max. 95 % at 60 % load; ≥ 98 % in EGO mode			
Switching time	Oms			
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			
OTHERS				
Operating temperature	0 °C ~ 40 °C			
Storage temperature	-25 °C ~ 55 °C (without battery)			
Humidity	0 ~ 95 % (non-condensing)			
Altitude	≤ 1000 m, derating 1 % for each additional 100 m			
IP rating	IP20			
Noise level at 1 m	≤ 55 dB	≤ 58 dB		
Dimensions (W x D x H) (mm)	191 × 465 × 711 (S) 191 × 465 × 350 (H)	191 × 495 × 711 (S) 191 × 495 × 350 (H)	191 × 495 × 515 (H)	
Packaged dimensions (W x D x H) (mm)	654 × 310 × 941 (S) 595 × 318 × 475 (H)	685 × 310 × 941 (S) 617 × 318 × 475 (H)	593 × 285 × 618 (H)	
Net weight (kg)	53 (S) 14.5 (H)	62 (S) 16.5 (H)	26.5 (H)	
Gross weight (kg)	61 (S) 16 (H)	70 (S) 18 (H)	28 (H)	

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



ARYA900Pro RT

1 kVA ~ 3 kVA
PF 0.9



1:1



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 (70-40Hz)
- Auto sensing frequency
- 60 / 50 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
- Hot-swappable battery
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto start, bypass, ECO and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)

REAR PANEL

- | | |
|---------------------------|----------------------|
| 1. Overcurrent Protection | 9. USB (optional) |
| 2. AC Input | 10. Intelligent Slot |
| 3. Modem/Tel/Fax | |
| 4. DC Input | |
| 5. Outlets | |
| 6. FAN | |
| 7. RS232 | |
| 8. EPO (optional) | |



MODEL	EA901PSRT			EA902PSRT			EA903PSRT	
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)							
OUTPUT								
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)							
Voltage regulation	± 1 %							
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 160 Hz ± 0.1 Hz (battery mode)							
Waveform	Sinusoidal							
Crest factor	3:1							
Total harmonic distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)							
Transfer time	Mains mode to battery: 0 ms; Inverter mode to bypass mode: 4 ms (typical)							
Overload	105 % ~ 125 % for 1 min, 125 % ~ 150 % for 30 s, > 150 % for 300 ms							
EFFICIENCY								
Mains mode	≥ 90%			≥ 91%			≥ 92%	
EGO mode	≥ 95%			≥ 96%			≥ 97%	
BATTERIES								
DC voltage	24 V	36 V	36 V	48 V	72 V	72 V	72 V	96 V
Inbuilt battery	2×9Ah	3×7 Ah	/	4×9Ah	6×7 Ah	/	6×9Ah	/
Charging current (max.)	2 A		6 A	2 A			2 A	6 A
Recharger time	Standard model: 90 % capacity restored in 3 hours; Long time model: depend on the capacity of battery							
ALARMS								
Utility failure	4 s per beep							
Low battery	1 s per beep							
Overload	1 s twice beep							
UPS fault	Long beep							
OTHERS								
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)							
EMI	IECIEN62040-2 IEC61000-4-2(ESD)							
EMS	IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (surge) IEC61000-4-6/4-8/4-11							
Operating temperature	0 °C ~ 40 °C							
Relative humidity	0 ~ 90% (non-condensing)							
IP rating	IP 20							
Noise level	≤ 50 dB (1m)							
Dimensions (W x D x H) (mm)	440 × 368 × 88	440 × 468 × 88		440 × 528 × 88	440 × 650 × 88	440 × 468 × 88	440 × 650 × 88	440 × 468 × 88
Packaged dimensions (W x D x H) (mm)	545 × 492 × 198	545 × 592 × 198		545 × 652 × 198	545 × 852 × 198	545 × 592 × 198	545 × 852 × 198	545 × 592 × 198
Net weight (kg)	11.1	13.8	7.6	21.4	27.2	9.7	30.6	10.1
Gross weight (kg)	14.4	17.3	11.1	25.0	31.3	13.2	34.7	13.6

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.
- Custom-made specifications are acceptable.
- S means standard model; H means long time model.
- All specifications are subject to change without notice.





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