



ULA On-line Pro Series

5KVA ~ 10KVA
PF 1.0



Features

High Reliability

- Advanced True On-line Double Conversion technology and DSP digital control is applied to rectifier and inverter
- Fan speed varies intelligently with temperature, reducing noise and increasing its service life
- Rear ventilation design, fan operating in slow speed, UPS being able to work for a long time in harsh environment
- Effective software and hardware protection function, powerful self-diagnostic function
- Higher reliability than single UPS system with advanced digital parallel technology N+X (X up to 3 sets)

High Availability

- Wide input voltage range, self-adaptive 50Hz /60 Hz grid system, suitable for various grid environments
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Output power factor improved from 0.8 to 0.9, load-carrying capacity increased by 13%
- Flexible battery configuration for using 14/16/18/20 pcs batteries, saving costs for customers
- Doubling the battery charging speed, 90% capacity restored in 4 hours for standard model UPS
- Ability to switch on the UPS with batteries in the absence of mains power
- UPS power supply mode has no transfer time to ensure uninterruptible power
- Configurable switching time from battery mode to mains mode when mains power is restored, reducing the impact on power grid or generator
- Frequency conversion mode: 50Hz input / 60Hz output or 60Hz input / 50Hz output

High Usability

- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration and online updating
- Compact internal layout, miniaturized the complete unit for small footprint

High Intelligence

- Advanced multi-platform communications: RS232,USB,RS485,SNMP Card and dry contact communication interfaces with Software for Monitoring and Shutdown; Web browser management
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, improving the reliability of charger and extending battery service life by 50%

Energy Conservation and Environment Protection

- Active power factor correction (APFC), input power factor up to 0.99
- Work efficiency up to 98% in ECO mode
- Auto power ON/OFF according to the load capacity set by users

Options and Accessories

- Standard RS232, optional USB, maintenance bypass, parallel function, battery temperature compensation, SNMP card, RS485 card, dry contacts card, EMD environmental sensors and SMS alarms

Rear Panel

1. Input and output terminal
2. Input breaker
3. Battery breaker
4. Maintenance bypass (optional)
5. Inbuilt battery
6. Fan
7. External battery connector
8. Intelligent Slot (for SNMP Card / AS400/ RS485)
9. USB (optional)
10. RS232
11. EPO (Emergency Power Off)
12. Parallel card (optional)
13. Battery temperature compensation (optional)



Long time model

Standard model

Specifications

MODEL	ULA 502C	ULA 103C
Capacity	5KVA/5000W	10KVA/ 10000W
INPUT	1 PHASE (2 Wires + PE)	
Rated voltage	208V/220V/230V/240Vac	
Voltage range	110Vac - 300Vac depending on loads (110 -300Vac at 50% loads ; 176 – 300Vac at 100% loads)	
Rated frequency	50 / 60 Hz (auto-sense)	
Frequency range	40 ~ 70 Hz	
Power factor	≥ 0.99	
Total harmonic distortion (THDI)	≤ 5%	
Bypass voltage range	– 40% ~ + 15% (settable)	
OUTPUT	1 PHASE (2 Wires + PE)	
Voltage	208 V / 220 V / 230 V / 240 Vac (settable)	
Voltage regulation	± 1%	
Frequency	46 - 54Hz or 56 - 64Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)	
Waveform	Pure sine wave	
Crest factor	3:1	
Total harmonic distortion (THDV)	≤ 1% (Linear load) ; ≤ 4% (Non-Linear load)	
Transfer time	Mains mode to battery mode: 0 ms; Inverter mode to bypass mode: 0 ms	
Inverter overload capability	102% ~ 125%: Transfer to bypass in 10 min; 125% ~ 150%: Transfer to bypass in 1 min; > 150%: Transfer to bypass in 0.5 s	
Bypass overload capability	102% ~ 125%: Shut down in 20 min; 125% ~ 150%: Shut down in 2 min; > 150%: Shut down in 1 s	
BATTERIES	VRLA Maintenance Free sealed lead -acid battery	
DC voltage	192 Vdc (168 / 192 / 216 / 240 Vdc optional)	
Charging Voltage and current	218.4VDC ± 1% / 2A	
Battery capacity	12V/7Ah * 16pcs	12V/9Ah * 16pcs
Back - up time	7 minutes (full loads) / 15 minutes (Haft loads)	
Recharge time	90% capacity restore in 4 hours	
SYSTEM		
EFFICIENCY	AC mode ≥ 94%; ECO mode ≥ 98%	
Display	LCD+LED	
Alarms	Battery mode, battery voltage low, fans fault etc.	
Maximum Parallel numbers	6	
EMI	IEC 62040 -1; IEC 62040 -2; IEC 62040 -3; IEC 60364	
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge)	
COMMUNICATIONS		
RS232/USB/ SNMP card/ RS485/ Dry contact	Including Software (UPSmart or iStar) for Monitoring and Shutdown; Web browser management. Support Windows* 98/ 2000/ 2003/ XP/ Vista/ 2008/ 7/ 8/ 10...	
OTHERS		
Humidity	0 ~ 95% RH @ 0 ~ 40°C (non-condensing)	
Noise level	≤ 55 dB (1m)	
Dimensions (W × D × H) (mm)	191 x 465 x 711 (S) / 191 x 465 x 350 (H)	191 x 495 x 711 (S) / 191 x 495 x 350 (H)
Packaged dimensions (W × D × H) (mm)	310 x 654 x 941 (S) / 318 x 595 x 475 (H)	310 x 685 x 941 (S) / 318 x 617 x 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)

- 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 subject to change without notice.
- Custom-made specifications are acceptable.

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