

ULA On-line Pro Series

6KVA ~ 10KVA PF0.9



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 selfdiagnostic 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
- 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
- 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
- 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

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)

High Usability

- LCD+LED display, multi-functional keys operation, friendly humanmachine 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



Long time model

Standard model



Specifications

MODEL	ULA 602C	ULA 103C				
Capacity	6KVA/5400W	10KVA/9000W				
INPUT	1 PHASE (2 Wires + PE)					
Rated voltage	208V/220V/230V/240Vac					
Voltage range	110Vac ~ 300Vac depending on loads; [110 ~ 160 Vac (linear derating between 50% and 100% load 160 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)]					
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					
Voltage regulation	± ·	7508				
Frequency	2000 MACADINE 180					
Waveform	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode) Pure sine wave					
Crest factor	3:1					
Total harmonic distortion (THDV)						
Transfer time	≤ 2% (linear load); ≤ 5% (non-linear load)					
Transfer time	Mains mode to battery mode: 0 ms; Inverter mode to bypass mode: 0 ms					
Lancate and the second	102% ~ 125%: Transfer to bypass in 10 min;					
Inverter overload capability	125% ~ 150%: Transfer to bypass in 1 min;					
	> 150%: Transfer to bypass in 0.5 s					
	102% ~ 125%: Shut down in 20 min;					
Bypass overload capability	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)					
Battery capacity	12V/7Ah * 16pcs	12V/9Ah * 16pcs				
Back - up time	7-10 minutes at full loads					
Recharge time	90% capacity	restore in 4 hours				
SYSTEM						
EFFICIENCY	≥ 93%, ECO mode 98%					
Display	LCD+LED					
Alarms	Battery mode, battery voltage low, fans fault etc.					
Maximum Parallel numbers	6					
EMI	IEC/EN62040-2					
	IEC61000-4-2 (ESD)					
EMS	IEC61000-4-3 (RS)					
EIVIS	IEC61000-4-4 (EFT)					
	IEC61000-4-5 (Surge)					
COMMUNICATIONS						
RS232/USB/ SNMP card/ RS485/ Dry contact	Including Software (UPSmart or iStar) for Monitori Support Windows* 98/ 2000/ 20	0				
OTHERS						
Humidity	20 ~ 90% 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)					
Packaged dimensions (W x D x H) (mm)						
Net weight (kg)	310 x 654 x 941 (S) / 318 x 595 x 475 (H)	310 x 685 x 941 (S) / 318 x 617 x 475 (H)				
Gross weight (kg)	53 (S) / 14.5 (H)	62 (\$)/ 16.5 (H)				
aross 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.

<sup>All specifications subject to change without notice.
Custom-made specifications are acceptable.</sup>



ULA On-line Rack Mount Smart UPS

1KVA ~ 3KVA PF 0.9





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 (110V ~ 300Vac) and frequency range (40 ~ 70Hz)
- Auto sensing frequency
- 50/60Hz 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)

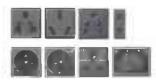
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)

Available Options

 Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch)

Rear Panel

- 1. Overcurrent Protection
- 2. AC Input
- 3. Modem/Tel/Fax
- 4. DC Input
- 5. Outlet
- 6. FAN
- 7. R\$232
- 8. EPO (optional)
- 9. USB (optional)
- 10. Intelligent Slot



Optional sockets





Specifications

MODEL		ULA102RT			ULA202RT			ULA302RT	
Capacity	1	KVA / 900 \	N	2	KVA / 1800	W	3	KVA / 2700	W
INPUT									
Rated voltage				208 V / 2	20 V / 230 V	/ 240 Vac			
Voltage range	110 ~ 176 Va	ıc (linear dera	ting between	50% and 100	% load); 176	~ 280 Vac (no	derating); 280	0 ~ 300 Vac (d	erating 50°
Frequency				40 - 7	0 Hz (auto-	-sense)			
Power factor					≥ 0.99				
Bypass voltage range	-25% - +15% (settable)								
ОИТРИТ									
Voltage	208 V / 220 V / 230 V / 240 Vac (settable via LCD)								
Voltage regulation	±1%								
Frequency	4	5 ~ 55 Hz oi	55 ~ 65 H:	z (synchron	ized range); 50 / 60 Hz	± 0.1 Hz (b	attery mod	e)
Waveform				1 2	Sinusoida		,		
Crest factor					3:1				
Harmonic distortion			5 2	% (linear Ins		non-linear	load)		
		≤ 2% (linear load); 5% (non-linear load) Mains mode to battery mode: 0 ms							
Transfer time	Inverter mode to battery mode: 6 ms Inverter mode to bypass mode: 4 ms (typical)								
Overload capability	105% ~ 125%: transfer to bypass in 1 min; 125% ~ 150%: transfer to bypass in 30 s; > 150%: transfer to bypass in 300 ms								
EFFICIENCY									
Mains mode	≥ 90% ≥ 91%					≥ 92%			
Battery mode		≥ 85%		≥ 86%			≥ 87%		
ECO mode	95% ≥ 96% ≥ 97%								
BATTERIES		0070			2 00 70			3- 57 70	
DC voltage	24 V	36 V	36 V	48 V	72 V	72 V	72 V	96 V	96 V
Inbuilt battery	2 × 9 Ah	3 × 7 Ah	/	4 × 9 Ah	6 × 7 Ah	/2 4	6 x 9 Ah	B × 7 Ah	1
									6 A
Charging current (max.)							D A		
Recharge time					8 h				
ALARMS									
Utility failure	4 s per beep								
Low battery	1 s per beep								
Overload	1 s twice beep								
UPS fault	Long beep								
COMMUNICATIONS									
RS232 (standard) / USB (optional)	Supports Windows [®] 98 / 2000 / 2003 / XP / Vista / 2008 / Windows [®] 7 / 8 / 10								
SNMP (optional)			Powerma	anagement	from SNMF	manager a	nd web bro	wser	
OTHERS									
Operating temperature	0 ~ 40℃								
Relative Humidity	0 ~ 90% (non-condensing)								
Noise level	≤ 50 dB (1m)								
Dimensions (W \times D \times H) (mm)	440 × 468 × 88			440 × 658 × 88		440 × 468 × 88	440 × 658 × 88	440 × 468 × 88 (UPS) 440 × 440 × 86 (BAT)	440 × 46 × 88
Packaged dimensions ($W \times D \times H$) (mm)	545 × 592 × 198			545 × 782 × 198		545 × 592 × 198	545 × 782 × 198	545 x 592 x 198 (UPS) 590 x 580 x 200 (BAT)	545 × 59 × 198
Net weight (kg)	12.26	13.78	7.58	22.73	25.86	9.66	29.26	9.45 (UPS) 27.2 (BAT)	10.04
Gross weight (kg)	15.78	17.3	11.1	26.63	29.76	13.18	33.16	12.97 (UPS) 30.2 (BAT)	13.56

Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208Vac.
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ULA On-line Pro Series

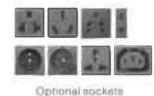
1KVA ~ 3KVA PF 0.9



Features

- High frequency and true double-conversion
- DSP (Digital Signal Processors) technology
- Input power factor correction (PFC)
- Wide input voltage range (110V~300V)
- Output power factor 0.9
- Cold start
- Auto sensing frequency
- ECO mode operation for energy saving
- Selectable output voltage via LCD
- Output bypass settable via LCD
- Power-on self test

- Advanced battery management (ABM)
- Short circuit and overload protection
- Automatic charging in OFF mode
- Auto control fan speed when loads varies
- Standard RS232 communication port and RJ45 protection
- Optional USB / SNMP communication port
- Optional emergency power off (EPO)
- Optional extension battery bank
- Optional built-in isolation transformer



Rear Panel

- 1. Overcurrent Protection
- 2. AC Input
- 3. Modem/Tel/Fax
- 4. DC Inpul
- 5. Outlet
- 6. Fan
- 7. RS232
- 8. USB (optional)
- 9. EPO (optional)
- 10. SNMP/AS400 (optional)







Specifications

MODEL	ULA 102C	ULA 202C	ULA 302C					
Capacity	1KVA/900W	2KVA/1800W	3KVA/2700W					
INPUT								
Rated voltage	208 V / 220 V / 230 V / 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-sense)							
Power factor	≥ 0.99							
Bypass voltage range	-25% ~ +15% (settable)							
ОИТРИТ								
Voltage	208 V / 220 V / 230 V / 240 Vac (settable via LCD)							
Voltage regulation	±1%							
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz	(synchronized range); 50 / 60 Hz	z ± 0 1 Hz (battery mode)					
Waveform		Sinusoidal						
Crest factor		3:1						
Harmonic distortion	≤ 2% (linear load); ≤ 5% (non-linear load)							
	Mains mode to battery mode: 0 ms							
Transfer time	Inverter mode to battery mode: 6 fits Inverter mode to bypass mode: 4 ms (typical)							
Overload capability	105% ~ 125%; transfer to bypass in 1 min, 125% ~ 150%; transfer to bypass in 30 s;							
	> 150%: transfer to bypass in 30 s;							
EFFICIENCY		Took. Hallold to bypado in doo						
Mains mode	90%	≥ 91%	≥ 92%					
Battery mode	≥ 85%	≥ 86%	≥ 87%					
ECO mode	≥ 95%	≥ 96%	≥ 97%					
· ·	= 95 %	= 90 70	# 31 76					
BATTERIES DC voltage	201	7017	1 001					
DC voltage	36V	72V	96V					
Inbuilt battery	3 x 7Ah	6x 7Ah	8 x 7Ah					
Charging current (max.)	1A 1A 1A							
Recharge time	8 h							
Back-up fime	10 minutes (full loads)/ 22 minutes (half loads)							
ALARMS								
Utility failure	4 s per beep							
Low battery	1 s per beep							
Overload	1 s twice beep							
UPS fault	Long beep							
COMMUNICATIONS								
RS232 (standard) / USB (optional)	Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / Windows® 7 / 8 / 10							
SNMP (optional)	Power management from SNMP manager and web browser							
OTHERS								
Operating temperature		0 ~ 40℃						
Relative Humidity	0 ~ 90% (non-condensing)							
Noise level	50 dB (1m)							
Dimensions (W × D × H) (mm)	144×414 ×214	191 7 218 7 335						
Packaged dimensions (W × D × H) (mm)	231 × 492 × 316	318 × 533 × 471 320 × 573 × 471						
Net weight (kg)	13	13 25.7						
Gross weight (kg)	14.2	27.4	34					

[●] Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208Vac.

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Custom—made specifications are acceptable.