

Features

- · AVR boost and buck
- · Cold start function
- · Smart RS-232/USB interface for power management
- · Built-in self-diagnostic function
- · Modem/LAN internet protection
- · Generator compatible(Optional)
- · LCD or LED panel for option
- · Fast charging capacity
- · Auto charging at off mode
- · Auto restart while AC is recovering



Optional socket







Two kinds of color LCD display

LED disp**l**ay

- 1. AC input
- 2. Output socket
- 3. USB & RJ11 communication
- 4. USB & RS232 communication



Rear Panel

Technical Specifications

Model	UA40	UA60	UA80	UA100	UA120	UA150	UA200
Capacity(VA/Watts)	400 / 240	600 / 360	800 /480	1000 / 600	1200 / 720	1500 / 900	2000 / 1200
INPUT	1						
Nominal Input Voltage	110/120 Vac or 220/230/240 Vac						
Operating Voltage Range	81~145 Vac / 162~290 Vac						
Operating Frequency Range	50/60 Hz (1±10%)						
OUTPUT							
Output Voltage range (Batt. Mode)	Simulated Sinewave at nominal voltage ±10%						
Frequency Range (Batt. Mode)	50 Hz or 60 Hz ±1 Hz						
Transfer Time	Typical 2~6 ms, 10ms max.						
BATTERY					I		
Battery Type & Number	12 V / 4.5 Ah x 1	12 V / 7Ah x 1	12 V / 9 Ah x 1	12 V / 7 Ah x 2	12 V / 7 Ah x2	12 V /9 Ah x 2	12 V / 9 Ah x 2
Typical Recharge time	6~8 hours (To 90% capacity)						
PROTECTION	1						
Full Protection	Overload and overcharge protection						
INDICATORS							
LED (LED version)	AC Mode, Battery Mode, Load Level, Battery Level						
LCD (LCD version)	AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Low						
ALARM	1						
Battery Mode	Sounding every 10 seconds						
Battery Low	Sounding every second						
Overload	Sounding every 0.5 second						
Battery Replacement Alarm	Sounding every 2 seconds						
Fault	Continuously sounding						
MANAGEMENT	1						
USB & RS-232 port (Optional)	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC						
ENVIRONMENT							
Operating Temperature	0~40℃						
Humidity Range	0~95 % (Non-condensing)						
Noise Level	<40dB (1 meter from surface)						
PHYSICAL				L		I	
Dimension, W×D×H (mm)	101 × 298 × 142			149.3×338×162		158×380×198	
Net Weight (kg)	3.55	4.25	4.9	7.8	8	11.1	11.5
STANDARDS							
Safety			IEC/EI	N62040-1;IEC/EN60	0950-1		
EMC	IEC/EN62	2040-2;IEC61000-	4-2;IEC61000-4-3	;IEC61000-4-4;IEC	61000-4-5;IEC610	000-4-6;IEC61000-	-4-8

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- 4. USB & RS232 communication



Rear Panel

Technical Specifications

Copy of Insport Copy of Insport Insport Copy of Insport Copy of Insport \$20023000000000000000000000000000000000	Model	UA240	UA300				
Pominal Injust Voltage Range Pominal Injust Voltage Range	Capacity(VA/Watts)	2400 / 1440	3000 / 1800				
Decreating Vortage Range	INPUT						
Operating Frequency Range \$0.060 Hz (1 ± 10%) OUTPUT Output Vallage Range (Balt, Mode) Simulated Shewave at nominal vallage ± 10% Frequency Range (Balt, Mode) \$0.11 ± 2 ± 1 Hz Transfer Time Typical 2-6 ms, 10ms max. BATTERY Battery Type & Number 12 V / 7 Ah x 4 12 V / 9 Ah x 4 Typical Recharge Time 6-8 hours (To 90% capacity) PROTECTION Full Protection AC Mode, Battery Mode, Load Level, Battery Lovel, Input Voltage, Output Voltage, Overhoad, Fault, Battery Low ALARM Battery Low Sounding every 10 seconds Battery Low Sounding every 20 seconds	Nominal Input Voltage	220/230/240 Vac					
Output Voltage Range (Batt. Mode) Simulated Sinewave at nominal voltage ±10% Froquezoy Range (Batt. Mode) 50 Hz or 60 Hz at 1 Hz Transfer Time Typical 2-6 ms, 10 ms mex. BATTERY Battery Type & Number Typical Recharge Time 6-8 hours (To 90% capacity) PROTECTION Full Protection Overfload and overcharge protection INDICATORS LCD Display AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Level Battery Mode Sounding every 10 seconds Battery Low Sounding every second Overload Sounding every 2 seconds Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS -232 Port(Optional) USB & RS -232 Port(Optional) Supports Windows* 2000/2003XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT Operating Temperature Operating Temperature 0 -40°C Humidly Range 0 -95% (Non-condensing) Noise Level 4006 (I meter from surface) <t< td=""><td>Operating Voltage Range</td><td colspan="5">162~290 Vac</td></t<>	Operating Voltage Range	162~290 Vac					
Output Yorlage Range (Batt, Mode) Smulated Sinewave at miniat voltage ± 10% Frequency Range (Batt, Mode) 50 Hz or 60 Hz ± 1 Hz Transfer Time Typical 2-6 ms, 10ms max. BATTERY Battery Type & Number 12 V / 7 Ah x 4 12 V / 9 Ah x 4 Typical Recharge Time 12 V / 7 Ah x 4 12 V / 9 Ah x 4 Typical Recharge Time 40 Y / 9 Ah x 4 12 V / 9 Ah x 4 Typical Recharge Time 12 V / 7 Ah x 4 12 V / 9 Ah x 4 Typical Recharge Time 12 V / 7 Ah x 4 12 V / 9 Ah x 4 Typical Recharge Time 6-8 hours (5 9% capacity) PROTECTION Figure Time AC Mode, Battery Mode, Load Level, Battery Level, input Voltage, Output Voltage, Output Pottage, Overload, Fault, Battery Low ALE Protection A C Mode, Battery Mode, Load Level, Battery Level, input Voltage, Output Volta	Operating Frequency Range	50/60 Hz (1 ± 10%)					
Frequency Range (Batt. Mode) Transfer Time Trypical 2-6 ms, 10ms max. BATTERY Battery Type & Number 12 V / 7 Ah x 4 12 V / 9 Ah x 4 13 V / 9 Ah x 4 14 V / 9 Ah x 4 15 V / 9 Ah x 4 15 V / 9 Ah x 4 15 V / 9 Ah x 4 16 V / 9 Ah x 4 17 V / 9 Ah x 4 18 V / 9 Ah x 4 18 V / 9 Ah x 4 18 V / 9 Ah x 4 19	OUTPUT						
### Typical 2-6 ms, 10ms max. BATTERY	Output Voltage Range (Batt. Mode)	Simulated Sinewave at nominal voltage ±10%					
### Battery Type & Number	Frequency Range (Batt. Mode)	50 Hz or 60 Hz ± 1 Hz					
Battery Type & Number 12 V / 7 Ah x 4 12 V / 9 Ah x 4 Typical Recharge Time 6-8 hours (To 90% capacity) PROTECTION Full Protection Overload and overcharge protection INDICATORS LCD Display AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Low ALARM Battery Mode Sounding every seconds Battery Applacement Alarm Sounding every Seconds Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT Sub & RS-232 Port(Optional) Supports Windows* 2000/2003/XPA/statz=008, Windows* 7, Linux, Unix, and MAC ENVRONMENT Operating Temperature 0-40°C Humidity Range 0-95% (Non-condensing) Noise Level 4040B (1 meter from surface) PHYSICAL Dimension, W × D × H (mm) 144 × 43 × 5 × 207 Net Weight (kg) <t< td=""><td>Transfer Time</td><td>Typical 2-6 m</td><td colspan="5">Typical 2-6 ms, 10ms max.</td></t<>	Transfer Time	Typical 2-6 m	Typical 2-6 ms, 10ms max.				
Typical Recharge Time 6-8 hours (To 90% capacity) PROTECTION Full Protection Overload and overcharge protection INDICATORS LCD Display AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Low ALARM Battery Mode Sounding every 10 seconds Battery Low Sounding every 9.5 second Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT Operating Temperature 0-40℃ Humidity Range 0-95% (Non-condensing) Noise Level 40dB (1 meter from surface) PHYSICAL Dimension, W × D × H (mm) 144 × 432.5 × 207 Net Weight (kg) 20 23 STANDAROS Safety 1EC/EN60950-1	BATTERY						
PROTECTION Question Protection INDICATORS LCD Display AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Low ALARM Battery Mode Sounding every 10 seconds Battery Low Sounding every 9.5 second Overload Sounding every 9.5 second Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vistalz∪08, Windows* 7, Linux, Unix, and MAC ENVIRONMENT Operating Temperature 0-40°C Humidity Range 0-95% (Non-condensing) Noise Level 440d B (1 meter from surface) PHYSICAL Dimension, W×D×H (mm) 144×432.5×207 Net Weight (kg) 20 23 STANDAROS Standaros SEC/EN60950-1	Battery Type & Number	12 V / 7 Ah x 4	12 V / 9 Ah x 4				
Full Protection Overload and overcharge protection INDICATORS INDICATORS LCD Display AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Low ALARM Sounding every 10 seconds Battery Low Sounding every 9.05 second Overload Sounding every 2 seconds Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT O-40°C Humidity Range 0-40°C Humidity Range 400°B (Non-condensing) Noise Level 440°B (1 meter from surface) PHYSICAL Dimension, W×D×H (mm) 144 × 432.5 × 207 Net Weight (kg) 20 23 STANDARDS Safety IEC/EN6040-1; EC/EN60950-1	Typical Recharge Time	6~8 hours (To 90% capacity)					
INDICATORS LCD Display AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Low ALARM Battery Mode Sounding every 10 seconds Battery Low Sounding every second Overload Sounding every 2 second Battery Replacement Alarm Sounding every 2 seconds Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XPIVIstal/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT Operating Temperature Operating Temperature Operating Temperature Operating Temperature Operating Temperature 10-95% (Nor-condensing) Noise Level PHYSICAL Dimension, W×D×H (mm) 144 × 43∠5×207 Net Weight (kg) 20 23 STANDARDS Sefety IEC/EN62040-1;EC/EN60950-1	PROTECTION						
LCD Display AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Low ALARM Sounding every 10 seconds Battery Low Sounding every second Overload Sounding every 0.5 second Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT 0-40°C Hurnidity Range 0-95% (Non-condensing) Noise Level <40dB (1 meter from surface) PHYSICAL Dimension, W×D×H (mm) 144 × 432.5 × 207 Net Weight (kg) 20 23 STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1	Full Protection	Overload and overcharge protection					
ALARM Battery Mode Sounding every 10 seconds Battery Low Sounding every second Overload Sounding every 0.5 second Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT Operating Temperature Operating Temperature 0-40°C Humidity Range <0-95% (Non-condensing)	INDICATORS						
Battery Mode Sounding every 10 seconds Battery Low Sounding every second Overload Sounding every 0.5 second Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vistal/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT Operating Temperature 0~40°C Humidity Range 0~95% (Non~condensing) Noise Level <40dB (1 meter from surface) PHYSICAL Dimension, W × D × H (mm) 144 × 432.5 × 207 Net Weight (kg) 20 23 STANDARDS Safety [EC/EN62040-1; EC/EN60950-1]	LCD Display	AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Low					
Battery Low Sounding every second Overload Sounding every 0.5 second Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT 0~40°C Humidity Range 0~95% (Non-condensing) Noise Level <40dB (1 meter from surface)	ALARM						
Overload Sounding every 0.5 second Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT Operating Temperature Use I Use	Battery Mode	Sounding every 10 seconds					
Battery Replacement Alarm Sounding every 2 seconds Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT Operating Temperature O-40°C Humidity Range 0-95% (Non-condensing) Noise Level AddB (1 meter from surface) PHYSICAL Dimension, W × D × H (mm) 144 × 432.5 × 207 Net Weight (kg) 20 23 STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1	Battery Low	Sounding every second					
Fault Continuously sounding MANAGEMENT USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT O-40°C Operating Temperature 0~40°C Humidity Range 0~95% (Non-condensing) Noise Level <40dB (1 meter from surface) PHYSICAL Dimension, W × D × H (mm) 144 × 432.5 × 207 Net Weight (kg) 20 23 STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1	Overload	Sounding every 0.5 second					
MANAGEMENT USB & RS-232 Port(Optional) Supports Windows* 2000/2003/XP/Vista/2008, Windows* 7, Linux, Unix, and MAC ENVIRONMENT 0~40°C Humidity Range 0~95% (Non-condensing) Noise Level <40dB (1 meter from surface)	Battery Replacement Alarm	Sounding every 2 seconds					
USB & RS-232 Port(Optional) Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC ENVIRONMENT Operating Temperature 0~40°C Humidity Range 0~95% (Non-condensing) Noise Level <40dB (1 meter from surface) PHYSICAL Dimension, W×D×H (mm) 144×432.5×207 Net Weight (kg) 20 23 STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1	Fault	Continuously sounding					
ENVIRONMENT Operating Temperature 0~40°C Humidity Range 0~95% (Non~condensing) Noise Level <40dB (1 meter from surface)	MANAGEMENT						
Operating Temperature 0~40°C Humidity Range 0~95% (Non-condensing) Noise Level <40dB (1 meter from surface)	USB & RS-232 Port(Optional)	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC					
Humidity Range 0~95% (Non-condensing) Noise Level <40dB (1 meter from surface)	ENVIRONMENT						
Noise Level <40dB (1 meter from surface)	Operating Temperature	0~40℃					
PHYSICAL Dimension, W×D×H (mm) 144×432.5×207 Net Weight (kg) 20 23 STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1	Humidity Range	0~95% (Non-condensing)					
Dimension, W × D × H (mm) 144 × 432.5 × 207 Net Weight (kg) 20 23 STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1	Noise Level	<40dB (1 meter from surface)					
Net Weight (kg) 20 23 STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1	PHYSICAL						
STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1	Dimension, W×D×H (mm)	144 × 432	144×432.5×207				
Safety IEC/EN62040-1;IEC/EN60950-1	Net Weight (kg)	20	23				
	STANDARDS						
EMC IEC/EN62040-2;IEC61000-4-3;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8	Safety	IEC/EN62040-1;IEC/EN60950-1					
	EMC	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8					

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