

## Key Features and Benefits

- True online double conversion technology.
- IGBT based inverter.
- Fully digitized microprocessor control DSP.
- Wide input voltage range.
- UPS start up without battery.
- Cold start.
- Advanced battery management system ABMS
- Automatic battery charging in UPS off mode.
- Short circuit and overload protection.
- Fan speed auto control when loads varies.
- Network/fax/modem surge protection.
- Optional extension battery pack.
- Battery voltage display.
- Load level display.
- EMI/RFI noise filter, and surge protection.
- Smart RS232 communication with monitoring software.
- Optional SNMP card and EPO.
- Short recharge time with big charger in XL models.
- Compatibility with Generators.

Model		UR910C	UR910C-RM	UR920C	UR920C-RM	UR930C	UR930C-RM
<b>Capacity</b>		1KVA/700W		2KVA/1400W		3KVA/2100W	
Input	Voltage Range	When load<70%, input range is 115±5VAC~295±5VAC When load ≥70%, input range is 160±5VAC~295±5VAC					
	Frequency Range	46~54Hz±0.5Hz or 56~64Hz±0.5Hz auto sensing					
	Phase	Single Phase					
	Power Factor	≥0.97					
Output	Voltage Range	220Vac±2%					
	Frequency Range	50Hz/60Hz±0.2%					
	THD (linear load)	<3%					
	Overload Capability	<110%, 30s turn to bypass mode; <150%, 300ms turn to bypass mode					
	Crest Factor	3:1 max					
	Short Circuit Protection	5 cycles turn off inverter, no transfer to bypass, provide alarm (AC mode) 5 cycles turn off inverter, provide alarm (battery mode) input fuse blown or breaker action (bypass mode)					
	Waveform	pure sine wave					
	Transfer Time Between AC Mode and Battery Mode	0ms					
	Efficiency	≥83%			≥85%		
	Battery	Model	12V sealed lead acid maintenance free				
DC Voltage		36VDC		96VDC			
Battery		3×12V/(7AH or 9AH)		8×12V/(7AH or 9AH)			
Backup Time (half load) 7AH/9AH		12/22min		19/36min		16/22min	
Backup Time (full load) 7AH/9AH		5/8min		8/16min		5/9min	
Charge Current (standard unit)		0.7A		0.7A		0.7A	
Charge Current (long time unit) XL models W/O Batteries		7.5A		7.5A		7.5A	
Recharge Time		90% capacity after 5 hrs charging					
Communication Interface	RS 232 ; SNMP (optional)						
LCD Indication	1, Input voltage/frequency, battery voltage, output voltage/frequency, load watt/VA and percent, inverter temperature 2, Operation mode such as "on line", "on batt", or "or bypass"						
LED Indication	1, Green LED for normal operation, 2, Yellow LED for warning condition 3, Red LED for abnormal operation						
Noise Level	<45dBA						
Environment	Temperature	0~40 C					
	Humidity	0%~95%(non-condensing)					
	Altitude	<1500m					
	Storage Temperature	-5~55					
Other	Standard Unit Net/Gross weight	14/15.2kg	15.4/17.8kg	32/34kg	36/40kg	32.3/34.5kg	36.1/40.6kg
	XL models (Without Batteries) Net/Gross Weight	14/15.2kg	7.3/10kg	13.5/16kg	11.5/14.5kg	14/16.7kg	12/15kg
	Dimension (W×D×H)mm	144×419×215	483×400×89	191×478×339	483×520×133	191×478×339	483×520×133
	Packing (W×D×H)mm	258×524×334	587×550×254	332×603×482	592×665×292	332×603×482	592×665×292

Model		UR6KC	UR6KC-RM	UR10KC	UR10KC-RM
Capacity		6KVA/4.2kW		10KVA/7kW	
Input	Voltage Range	176±5VAC ~276±5VAC			
	Frequency Range	46~54Hz±0.5Hz or 56~64Hz±0.5Hz auto sensing			
	Phase	Single phase			
	Power Factor	≥0.97			
Output	Voltage Range	220Vac ±1%			
	Frequency Range	50Hz/60Hz±0.2%			
	THD (linear load)	<2%			
	Overload Capability	<130%, 10 min turn to bypass mode; ≥130%, 1s turn to bypass mode			
	Crest Factor	3:1 (max)			
	Short Circuit Protection	5 cycles turn off inverter, no transfer to bypass, provide alarm (AC mode) 5 cycles turn off inverter, provide alarm (battery mode) input fuse blown or breaker action (bypass mode)			
	Waveform	pure sine wave			
	Transfer Time Between AC Mode and Battery Mode	0ms			
	Efficiency	≥90%			
Battery	Model	12V sealed lead acid maintenance free			
	DC Voltage	240VDC			
	Battery	20×12V(7AH or 9AH)			
	Backup Time ( half load )7AH/9AH	18/35min			9/12min
	Backup Time ( full load ) 7AH/9AH	8/15min			3.5/5min
	Charge Current (standard unit)	1A			
	Charge Current (long time unit) XL models W/O Batteries	5A			
Recharge Time	90% capacity after 5 hrs charging				
Communication Interface	RS 232 ; SNMP (optional)				
LCD Indication	1, Input voltage/frequency, battery voltage, output voltage/frequency, load watt/VA and percent, inverter temperature 2, Operation mode such as "on line", "on batt", or "or bypass"				
LED Indication	1, Green LED for normal operation, 2, Yellow LED for warning condition 3, Red LED for abnormal operation				
Noise Level	<55dBA				
Environment	Temperature	0~40C			
	Humidity	0%~95%(non-condensing)			
	Altitude	<1500m			
	Storage Temperature	-5~55			
Other	Standard Unit Net/Gross weight	81.5/89.5Kg	74/80Kg	82.5/90.5Kg	75/81Kg
	XL Unit (Without Batteries) Net/Gross Weight	30/38.5Kg	24/30.5Kg	31/40Kg	23.5/29.5Kg
	Dimension (W×D×H)mm	270×570×720	440×656×176	270×570×720	440×656×176
	Packing (W×D×H)mm	370×670×940	580×790×336	370×670×940	580×790×336

## The Range

Robust, economic, reliable, heavy duty, highly efficient, intelligent, superior flexibility, environmentally friendly – these words define GreenWave Ultra range, which make it a powerful player in the UPS market.

Each of the ULTRA models, offer several versions meeting all your needs for a single phase online double conversion product from 1 to 10kVA. Versions to cover tower format and 19" rack formats, with built-in batteries for normal backup time or XL version to cover your needs for several hours backup with ability to recharge the batteries efficiently in relatively short time.

GreenWave is taking the lead by providing professional customers with an outstanding range of high performance and reliable products.

ULTRA operates using VFI, online double conversion technology so that loads are isolated from AC mains disturbances.

### Applications:

GreenWave ULTRA range provides combination of outstanding protection features and flexibility in economic yet efficient products, making it the right choice for applications demanding optimum reliability and energy efficiency.

### GreenWave products selection:

GreenWave provides you with a wide range of versions that will ensure the right solution and protection of your equipment and extend your protected equipment's lifetime.

Compatible with:



PHILIPS



ABB



SIEMENS



OSRAM



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### Important note!

The technical data enclosed is for general information. Please note that the operating instructions and references indicated on the products are for installation, operation and maintenance.

### Product designations

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