



**1kVA - 3kVA**

# On-Line UPS

## Diamantina RT Series



### Features:

- True online double conversion technology
- DSP Control
- Output Power Factor 0.9
- Wide Input Range 120 - 276VAC
- High Efficiency Mode (ECO)
- Frequency Converter Mode
- Input THDi <5%
- Compact Design
- Power Management Software
- Multiple Communication Ports
- Optional SNMP & Relay Cards
- Temperature Compensation
- Output THDv <2%
- Fan Speed Control
- Output Voltage Regulation <1%

# On-Line UPS

## SPECIFICATIONS:

MODEL		Diamantina RT 1	Diamantina RT 1L*	Diamantina RT 2	Diamantina RT 2L*	Diamantina RT 3	Diamantina RT 3L*	
<b>CAPACITY</b>	VA/W	1000VA/900W		2000VA/1800W		3000VA/2700W		
<b>INPUT</b>	Voltage Range	Based on load percentage (100%-75% / 75%-50% / 50%-0%)						
		Line Low Transfer	176VAC/148VAC/120VAC ± 3%					
		Line Low Comeback	186VAC/158VAC/130VAC ± 3%					
		Line High Transfer	276VAC ± 3%					
	Line High Comeback	266VAC ± 3%						
	Frequency Range	50/60Hz auto sensing ; 50Hz: 45Hz ~ 55Hz / 60Hz: 54Hz ~ 66Hz						
	Phase	Single phase with ground						
Power Factor	≥ 0.99							
<b>OUTPUT</b>	Voltage	220VAC/230VAC/240VAC						
	Voltage Regulation	± 2%						
	Frequency (Synchronised Range)	50Hz: 45Hz ~ 55Hz / 60Hz: 54Hz ~ 66Hz (Adjustable)						
	Frequency (Battery Mode)	50/60 ± 0.2 Hz						
	Current Crest Ratio	3:1						
	Harmonic Distortion	≤ 2% THD (Linear Load) ≤ 5% THD (Non-Linear Load)						
	Output Waveform	Pure Sine Wave						
<b>EFFICIENCY</b>	To ECO Mode	>95%		>95%		>95%		
	To AC Mode	>87%		>89%		>90%		
	To Battery Mode	>83%		>83%		>86%		
<b>BATTERY</b>	Battery Type	12V/7Ah	Depending on the capacity of external batteries	12V/9Ah	Depending on the capacity of external batteries	12V/9Ah	Depending on the capacity of external batteries	
	Numbers of Batteries	3		4		6		
	Backup Time (Full Load)	> 5 minutes		> 5 minutes		> 5 minutes		
	Recharge Time	<3 hours to 90%		<3 hours to 90%		<3 hours to 90%		
	Charging Current (Max.)	1.5A	6.0A	1.5A	6.0A	1.5A	6.0A	
Charging Voltage	41.0Vdc		54.6Vdc		81.9Vdc			
<b>TRANSFER TIME</b>	AC to DC	0ms						
	Inverter to Bypass (ECO)	0ms						
<b>INDICATOR</b>	Status	Load Level / Battery Level / Battery Mode / AC Mode / Bypass Mode / Fault						
<b>AUDIBLE ALARM</b>	Battery Mode	Sounding every 4 seconds						
	Battery Low	Sounding every second						
	Overload	Sounding twice every second						
	Fault	Continuously Sounding						
<b>DIMENSION</b>	(WxHxD) mm	438 x 86.5 x 435		438 x 86.5 x 435		438 x 86.5 x 604		
<b>WEIGHT</b>	Net Weight (kgs)	15	8.4	19.3	9.3	28.8	13	
<b>ENVIRONMENT</b>	Operating Environment	0-40° C						
	Relative Humidity	0-95% (NON-CONDENSING)						
	Noise Level	<45dB @ 1 Meter		<50dB @ 1 Meter				
<b>INTERFACE</b>	USB	Software supports Windows family, Linux, and MAC						
	Smart RS-232	Software supports Windows family, Linux, Sun Solaris, IBM Aix, Compaq True64, SGI IRIX, FreeBSD, HP-UX, and MAC						
	SNMP (option)	Power management from SNMP manager and web browser						
* L Series represents extended backup models								
* Product specifications are subject to change without further notice								