Guardian R/T





True double-conversion online UPS

A true double conversion UPS will provide clean, high level quality power to fully protect mission-critical devices such as sensitive networks, small computer centers servers, telecom applications, as well as for industrial applications.

Output power factor 0.9

Guardian R/T is a high-density UPS with an output power factor of 0.9 to provide higher performance and efficiency to critical applications.

User-friendly and easy-shift LCD display

The front panel digital display can be easily shifted through LCD setting to suit the installation format: Vertical stand (Tower style) or Horizontal (for Rack mount style).



· Rack/Tower design

Guardian R/T series is designed in a true universal-mount case. Its ingenious design allows it to be easily installed either as a 19" rackmount bracket or as a floor-standing tower.







LCD Display Panel



Programmable power management outlets

With programmable power management outlets, users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to missioncritical devices by shutting down the non-critical devices.



Programmable Outlets (P1) - connect to non-critical devices

• 50/60 Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

ECO and advanced ECO mode for energy saving

Allows the UPS to operate with up to 97% efficiency while in energysaving ECO mode. In this operation mode, load is supplied by the mains. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems. Guardian R/T 1-3K even offers advanced ECO mode to allow UPS to operate at a higher efficiency level of up to 98%.

Emergency Power Off Function (EPO)

Thanks to its EPO feature, Guardian R/T series can secure personnel and equipment in case of fires or other emergencies.

Hot-swappable battery design for 1-3K models only

This design ensures clean and uninterruptible power to protected equipment during battery replacement.





DSP technology applied for 6K and up models

Its advanced DSP controller provides an improved and cost-effective solution that offers sky-high performance.

Active input power factor correction 0.99 for 6K and up models

Helps you save more energy with a more stable power factor performance that also meets higher environmental standards.

Guardian R/T Battery Pack

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Capacity	1K	1.5K	2K	3K	6K	10K	
Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V 9 Ah	12/7Ah	12 V 9 Ah	
Battery Number	8 pcs	6 pcs	8 pcs	12 pcs	20 pcs	20 pcs	
Dimension (DxWxH)	480 x 438 x 88	480 x 438 x 88	480 x 438 x 88	600 x 438 x 88	580 x 438 x 133	580 x 438 x 133	
Net Weight (kgs)	31.1	29.1	31.1	43.3	57	63	





Guardian 1KVA/1.5KVA/2KVA/3KVA Rack/Tower (R/T) On-line UPS Selection Guide

MODEL		Guardian R/T 1K	Guardian R/T 1KL	Guardian R/T 1.5K	Guardian R/T 1.5KL	. Guardian R/T 2K	Guardian R/T 2KL	Guardian R/T 3K	Guardian R/T 3KL		
PHASE		Single phase with ground									
CAPACITY	VA	1000 VA		1500 VA		2000 VA		3000 VA			
	W	900 W	800 W	1350 W	1200 W	1800 W	1500 W	2700 W	2400 W		
INPUT											
Low Line Transfer		80 VAC / 70 VAC / 60 VAC / 55 VAC ± 5 % (based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)									
Voltage Range	Low Line Comeback	85 VAC / 75 VAC / 65 VAC / 60 VAC ± 5 % (based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)									
	High Line Transfer	150 VAC ± 5 %									
High Line Comeback		140 VAC ± 5 %									
Frequency Range		40Hz ~ 70Hz									
Power Factor		≥ 0.99 @ Nominal Voltage (100% load)									
OUTPUT		I.									
Output Voltage					110/115/12	20/127 VAC					
AC Voltage Regulation (Batt. Mode)		± 1%									
Frequency Rang	ge (Synchronized Range)	47 ~ 53 Hz									
Frequency Rang											
Current Crest Ratio		50 Hz ± 0.2 Hz 5:1 (max.)									
Harmonic Distor				≤2 % THD			inear Load)				
	Line mode to Battery mode		≤2 % THD (Linear Load); ≤8 % THD (Non-linear Load) Zero								
Transfer Time	Inverter to Bypass										
Waveform (Batt.		4 ms (Typical) Pure Sinewaye									
EFFICIENCY	. Wode)				- Fule 3	illewave					
AC Mode				20/.			01	00/.			
		86%				88%					
Battery Mode		83% 85%									
BATTERY		12 V / 9 AH		12 V / 9 AH		40.1/ / 0.411		12 V / 9 AH			
Battery Type		12 V / 9 AH	Depending on the capacity of external		Depending on the capacity of external batteries	12 V / 9 AH 4 4 hours recover	Depending on the capacity of external batteries	6 6	Depending on the capacity of external batteries		
Numbers		4 hours recover		3 4 hours recover				4 hours recover			
Typical Recharge Time		to 90% capacity	batteries	to 90% capacity	Datteries	to 90% capacity	Datteries	to 90% capacity	batteries		
Charging Current (max.)		1.0 A	4A or 8A	1.0 A	4A or 8A	1.0 A	4A or 8A	1.0 A	4A or 8A		
Charging Voltag	e	27.4 VDC ± 1% 41.1 VDC ± 1% 54.7 VDC ±1% 82.						82.1 VE	C ±1%		
INDICATORS											
LCD Display			Load lev	vel, Battery level,	AC mode, Batte	ry mode, Bypass	mode, and Fault	indicator			
ALARM											
Battery Mode		Sounding every 4 seconds									
Low Battery		Sounding every second									
Overload		Sounding twice every second									
Fault					Continous	ly sounding					
PHYSICAL											
Dimension, D x W x H (mm)		380 x 438 x 88 [2U] 480 x 438 x 88 [2U]				480 x 438 x 88 [2U] 600 x 438 x 88 [2U]					
Net Weight (kgs)		12.9	8.6	17.6	10.7	20.6	11.3	28	13.8		
ENVIRONMENT	Γ										
Humidity				20-9		0°C (non-condens	sing)				
Noise Level					Less than 50	BA @ 1 Meter					
MANAGEMENT											
Smart RS-232 /	USB	Supports Windows ² 2000/2003/XP/Vista/2008, Windows ² 7, Linux, Unix, and MAC									
Optional SNMP		Power management from SNMP manager and web browser									