

CLEANLINE[®] UPS

เครื่องสำรองไฟฟ้า

True On-Line Double Conversion Design



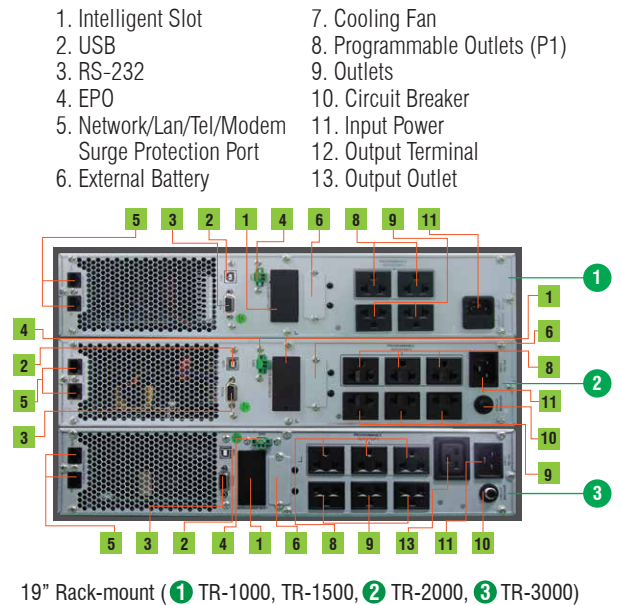
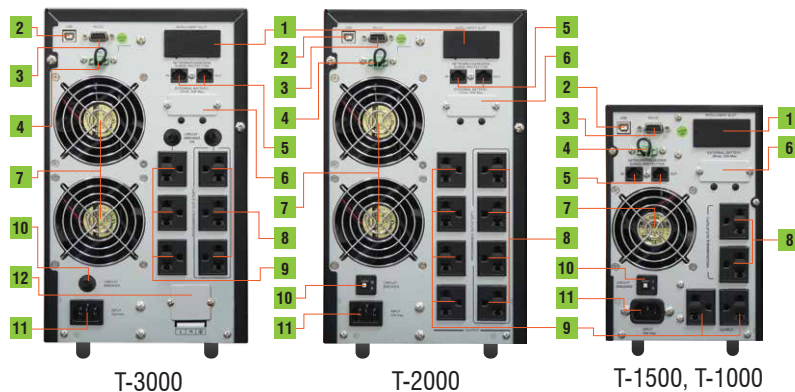
Tower and 19" Rack-mount Model

T-1000, TR-1000:	1kVA/900W
T-1500, TR-1500:	1.5kVA/1,350W
T-2000, TR-2000:	2kVA/1,800W
T-3000, TR-3000:	3kVA/2,700W



KEY Features:

- True on-line double conversion design UPS
- 100% digitized microprocessor controlled
- Output power factor 0.9
- Wide input voltage range 110-300Vac
- 50/60 Hz frequency converter mode
- MIMIC LCD for real-time UPS status display
- Auto self-testing system while turning on UPS
- ECO mode operation for energy saving
- Emergency power off (EPO) function
- Programmable power management outlets
- Selectable output voltage via LCD panel
- Cold start function
- Smart battery charger design to optimize battery performance
- Battery charger with temperature compensation technology
- Short circuit protection
- Lightning and surge protection
- Built-in USB and RS-232 communications port for management software
- Generator compatible
- **Optional external Battery for Expansion back up time and Hot Swappable Battery**
- **Optional external maintenance bypass switch**
- **Optional compatible with SNMP protocol**
- **UPS Monitoring and Controlling Software, Available for immediate download via the website**



TECHNICAL SPECIFICATION

Tower Model		T-1000	T-1500	T-2000	T-3000
19" Rack-mount Model		TR-1000	TR-1500	TR-2000	TR-3000
Power Rating		1kVA/900W	1.5kVA/1,350W	2kVA/1,800W	3kVA/2,700W
Input	Voltage	110-300Vac at 50% load, 160-300Vac at 100% load			
	Frequency	50 or 60Hz $\pm 10\%$			
Output	Phase	Single phase with ground			
	Power factor	>0.99 @ nominal voltage (100% Load)			
Efficiency	Voltage	208/220/230/240Vac			
	Voltage regulation	$\pm 1\%$			
Protection and Filtering	Frequency	50 or 60Hz $\pm 0.1\%$ (Battery mode)			
	Overload recovery	Auto transfer to UPS			
Battery	UPS Design technology	True on-line double conversion, Full digitized microprocessor controlled			
	Crest factor	3:1			
Indicators	Harmonic distortion	$\leq 2\%$ THD (Linear load), $\leq 4\%$ THD (Non-Linear load)			
	Output waveform	Pure sinewave			
Audible Alarm	Transfer time	0 ms			
	Status	UPS status, Load level, Battery level, Input/output voltage, Remaining backup time, and Fault conditions			
Dimension (DxWxH mm)	AC mode	$>90\%$			
	Battery mode	$>89\%$			
Weight (kg)	ECO mode	$>97\%$			
	Tower	397 x 145 x 220			
Environmental	19" Rack-mount	480 x 438 x 88 (2U)			
	Tower	12.5			
Interface	19" Rack-mount	18.4			
	Tower	13.8			
Operating temperature	Relative humidity	0-40 °C			
	Noise level	$<45\text{dB}@1$ Meter			
Smart RS232	Software supports windows family, Linux, Sun solaris, IBM aix, Compaq true64, SGI IRIX, FreeBSD, HP-UX and MAC				
	Windows family and MAC OS				
USB	Power management from SNMP manager and web browser				
	SNMP(Optional)				

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