

T series TR series



Tower and 19" Rack-mount Model

T-1000, TR-1000:	1000VA/1000W
T-1500, TR-1500:	1500VA/1500W
T-2000, TR-2000:	2000VA/2000W
T-3000, TR-3000:	3000VA/3000W



KEY Features:

- True on-line double conversion with 3-level inverter design UPS
- 100% digitized microprocessor controlled
- Output power factor 1.0
- 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 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		1000VA/1000W	1500VA/1500W	2000VA/2000W	3000VA/3000W
Input	Voltage	110-300Vac at 50% load, 160-300Vac at 100% load			
	Frequency	50 or 60Hz $\pm 10\%$			
	Phase	Single phase with ground			
	Power factor	>0.99 @ nominal voltage (100% load)			
Output	Voltage	208/220/230/240Vac			
	Voltage regulation	$\pm 1\%$			
	Frequency	50 or 60Hz $\pm 0.1\%$ (Battery mode)			
	Overload recovery	Auto transfer to UPS			
	UPS design technology	True on-line double conversion, full digitized microprocessor controlled			
	Crest factor	3:1			
	Harmonic distortion	$\leq 2\%$ THD (Linear load), $\leq 4\%$ THD (Non-linear load)			
	Output waveform	Pure sinewave			
Efficiency	Transfer time	0 ms			
	AC mode	$>92\%$		$>93\%$	$>94\%$
	Battery mode	$>89\%$		$>89\%$	$>90\%$
	ECO mode	$>97\%$			
Protection and Filtering	Surge protection	EN/IEC 61000-4-5 Level 3			
	Overload protection	UPS Automatic bypass if overload between 110% to 130% at 30 seconds and more than 130% at 1.5 seconds			
	Short circuit protection	UPS Output cut off immediately or input fuse/circuit breaker protection			
Battery	Type	Sealed, Maintenance-free lead acid batteries			
	Typical recharge time to 90%	4 hours			
	Management	Self-test			
	Battery protection	Cut off without draining any current when battery is low			
	Cold start (DC start)	Yes			
	Back up time	15-30 minutes (Depending on computer load)			
Indicators	Expansion back up time	Depending on customer required			
	Status	UPS status, Load level, Battery level, Input/output voltage, Remaining backup time, and Fault conditions			
Audible Alarm	Battery mode	Sounding every 4 seconds			
	Low battery	Sounding every second			
	Overload	Sounding twice every second			
	Fault	Continuously sounding			
Dimension (DxWxH mm)	Tower	397 x 145 x 220	397 x 145 x 242	421 x 190 x 318	
	19" Rack-mount	410 x 438 x 88 (2U)		550 x 438 x 88 (2U)	
Weight (kg)	Tower	11.4	13.8	24.19	29.62
	19" Rack-mount	13.5	14.7	23	26.7
Environmental	Operating temperature	0-40 °C			
	Relative humidity	0-95% (Non-Condensing)			
	Noise level	$<45\text{dB}@1\text{ Meter}$			
Interface	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 Power management from SNMP manager and web browser			
	USB				
	SNMP(Optional)				

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TIS. 1291 Part 1-2553
TIS. 1291 Part 2-2553
TIS. 1291 Part 3-2553