

CLEANLINE

uninterruptible power supply
True On-Line Double Conversion Design



KEY Features:

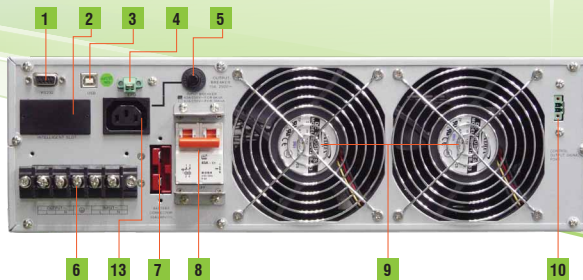
- True on-line double conversion design UPS
- DSP technology guarantees high performance
- Wide input voltage range 110-300Vac
- 50/60 Hz frequency converter mode
- MIMIC LCD for real-time UPS status display
- Auto self-testing system while turning on UPS
- ECO mode operation for energy saving
- Emergency power off (EPO) function
- Programmable power management output (Tower model)
- Selectable output voltage via LCD panel
- Cold start function
- Smart battery charger design to optimize battery performance

Tower and 19" Rack-mount Model

T-6000, TR-6000:	6kVA/4.2kW
	Option for 6kVA/4.8kW
T-10K, TR-10K:	10kVA/8kW

- Battery charger with temperature compensation technology
- Adjustable battery numbers
- Short circuit protection
- Lightning and surge protection
- Built-in USB and RS-232 communications port for management software
- Built-in maintenance bypass switch (Tower model)
- Generator compatible
- **Optional external maintenance bypass switch**
- **Optional compatible with SNMP protocol**
- **Optional hot standby mode and N+X parallel redundancy**
- **Optional isolation transformer**

1. RS-232
2. Intelligent Slot
3. USB
4. EPO
5. Output Breaker
6. Output Terminal
7. Battery Connector
8. Input Breaker
9. Cooling Fan
10. Control Output Signal port
11. Parallel Connection
12. Maintenance Bypass Switch
13. Output Outlet



19" Rack-mount (TR-6000, TR-10K)



T-6000, T-10K

TECHNICAL SPECIFICATION

Tower Model		T-6000		T-10K
19" Rack-mount Model		TR-6000		TR-10K
Power Rating		6kVA/4.2kW	6kVA/4.8kW (Option)	10kVA/8kW
Input	Voltage	110-300Vac at 50% Load, 220Vac $\pm 20\%$ at 100% load ($\pm 27\%$ Option)		
	Frequency	50Hz $\pm 10\%$		
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	$\leq 3\%$ THD (Linear load), $\leq 6\%$ THD (Non-Linear load)		
	Output waveform	Pure sinewave		
Audible Alarm	Transfer time	0 ms		
	AC mode	$> 89\%$		
Dimension (DxWxH mm)	Battery mode	$> 88\%$		
	ECO mode	$> 95\%$		
Weight (kg)	Surge protection	220V (IEEE C6100-4-5 level 3)		
	Overload protection	UPS Automatic bypass if overload between 110% to 130% at 60 seconds and more than 130% at 1 seconds		
Environmental	Short circuit protection	UPS Output cut off immediately or input fuse/circuit breaker protection		
	Type	Sealed, Maintenance-free lead acid batteries		
Interface	Typical recharge time to 90%	8 hours		
	Management	Self-test, Adjustable battery transfer points and alarm setting		
Smart RS232	Battery protection	Cut off without draining any current when battery is low		
	Cold Start (DC start)	Yes		
USB	Back up time	15-30 minutes (Depending on computer load)		
	Expansion back up time	Depending on customer required		
SNMP(Optional)	Status	UPS status, Load level, Battery level, Input/output voltage, Discharge timer, and Fault conditions		
	Battery mode	Sounding every 4 seconds		
Power management from SNMP manager and web browser	Low battery	Sounding every second		
	Overload	Sounding twice every second		
Software supports windows family, Linux, Sun solaris, IBM aix, Compaq true64, SGI IRIX, FreeBSD, HP-UX and MAC	Fault	Continuously sounding		
	Operating temperature	0-40 °C		
Windows family and MAC OS	Relative humidity	0-95% (Non-Condensing)		
	Noise level	$< 45\text{dB}$ @ 1 Meter		
Power management from SNMP manager and web browser	580 x 438 x 133 (3U)	668 x 438 x 133 (3U)		
	81	83		
Power management from SNMP manager and web browser	17	20		
	Operating temperature	0-40 °C		
Power management from SNMP manager and web browser	Relative humidity	0-95% (Non-Condensing)		
	Noise level	$< 45\text{dB}$ @ 1 Meter		
Power management from SNMP manager and web browser	Software supports windows family, Linux, Sun solaris, IBM aix, Compaq true64, SGI IRIX, FreeBSD, HP-UX and MAC	Software supports windows family, Linux, Sun solaris, IBM aix, Compaq true64, SGI IRIX, FreeBSD, HP-UX and MAC		
	Windows family and MAC OS	Windows family and MAC OS		
Power management from SNMP manager and web browser	Power management from SNMP manager and web browser	Power management from SNMP manager and web browser		
	Power management from SNMP manager and web browser	Power management from SNMP manager and web browser		

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