

เครื่องสำรองไฟฟ้า

CLEANLINE

UPS

True On-Line Double Conversion Design



Rack/Tower Model

TR-10K31, T-10K31, T-10K31L

TR-15K31, T-15K31, T-15K31L

TR-20K31, T-20K31, T-20K31L

10kVA/9kW

15kVA/13.5kW

20kVA/18kW



TR-10K31

TR-15K31, TR-20K31



T-10K31, T-10K31L
T-15K31, T-15K31L
T-20K31, T-20K31L

KEY Features:

- True On-line Double Conversion Design
- Large Blue Back Light LCD for Detailed Real-Time UPS Status Display
- DSP Technology (digital signal processor)
- Comprehensive Self-Protection Design
- Audible Alarm Mute
- Cold Start Function
- Auto Self-Testing System while Turning On UPS
- Wide Input Voltage Range
- ECO Mode Operation for Energy Saving (ECO)
- Programmable Power Management Outlet
- Emergency Power Off (EPO) Function
- Generator Compatible
- Smart Battery Charger Design to Optimize Battery Performance
- Under and Over Voltage Protection
- Lightning and Surge Protection
- Short Circuit Protection
- High Temperature Protection (Over Heat)
- Optional Isolation Transformer Available



TECHNICAL SPECIFICATION

Model (Standard)		T-10K31	T-15K31	T-20K31
Model (Long-run)		T-10K31L	T-15K31L	T-20K31L
Model (19” Rack-mount)		TR-10K31	TR-15K31	TR-20K31
Power Rating		10kVA/9kW	15kVA/13.5kW	20kVA/18kW
Input	Voltage Range	220 or 380/400/415Vac ±20%		
	Frequency Range	50/60Hz		
	Phase	Single phase with Ground or Three phase with nuetral		
	Power Factor	>0.99 @ nominal voltage (100% Load)		
Output	Voltage	208/220/230/240VAC		
	Voltage Regulation	±1%		
	Frequency	Synchronization range (line mode); 50 or 60Hz ±0.1% (Battery mode)		
	Current Crest Ratio	3:1		
	Voltage Distortion	≤2% THD (Linear Load) ≤5% THD (Non-Linear Load)		
	Output Waveform	Pure Sinewave		
	Transfer Time	0 ms		
	Overload Protection	110% at 10 Min, >110-130% at 1 Min, 130% at 1 Sec		
Battery	Type	Sealed, maintenance-free lead acid batteries 20 Pcs (240 Vdc)		
	Charging Voltage	273Vdc ±1%		
	Management	Self-test, adjustable battery transfer points and alarm setting		
	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 load		
	Expansion Back Up Time	Optional		
Indicators	Status	UPS status load level Battery level Input/output voltage discharge timer 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	592 x 250 x 576	815 x 250 x 826	
	19” Rack-mount	668 x 438 x 133 (3U)	668X438X266(6U)	
Weight (kg)	Tower	83	164	
	19” Rack-mount (With out batt)	22	45	
Environmental	Operating Temperature	0-40 °c		
	Relative Humidity	0-95% (Non-Condensing)		
	Noise Level	<50dB@1 Meter		
Interface	Smart RS232	Software supports Windows family, Linux, Sun Solaris, IBM Aix, Compaq True64, SGI IRIX, FreeBSD, HP-UX and MAC		
	USB	Windows family and Mac OS		
	SNMP(option)	Power management from SNMP manager and web browser		

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